CURRENT IN AMPERES

TIME IN SECONDS

RLY_SERVICE #1 - MAIN - Phase
TX_UTIL #1

UTIL_NATIONAL GRID #1

TX_UTIL #1

CBL-0021

RLY_SERVICE #1 - MAIN

BKR_SERVICE #1 - MAIN

TX_UTIL #1

2500.0 kVA
Z=5.7000 %
Pri FLA 109.3 A

RLY_SERVICE #1 - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
   LDPU 1.2 (360A)
   I2T 40
   SDPU 7.5 (2250A)
   SDT 1.5 (sec)
   INST 20 (6000A)
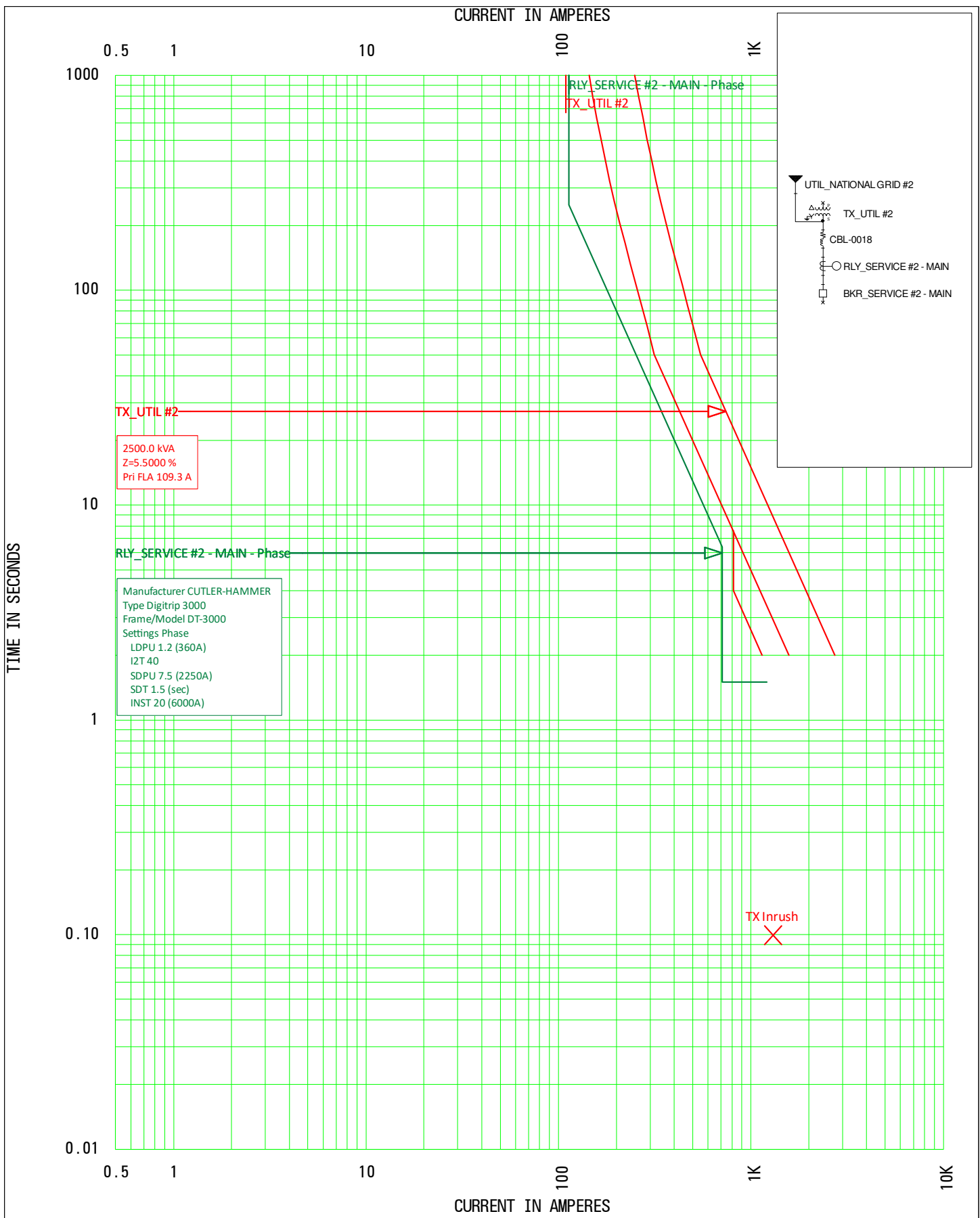
TX Inrush

CURRENT IN AMPERES

TCC Name: TCC_001_TX_UTIL #1
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 13200V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

TIME IN SECONDS

RLY_SERVICE #2 - MAIN - Phase
TX_UTIL #2

TX_UTIL #2

2500.0 kVA
Z=5.5000 %
Pri FLA 109.3 A

RLY_SERVICE #2 - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1.2 (360A)
  I2T 40
  SDPU 7.5 (2250A)
  SDT 1.5 (sec)
  INST 20 (6000A)

TX Inrush

UTIL_NATIONAL GRID #2
TX_UTIL #2
CBL-0018
RLY_SERVICE #2 - MAIN
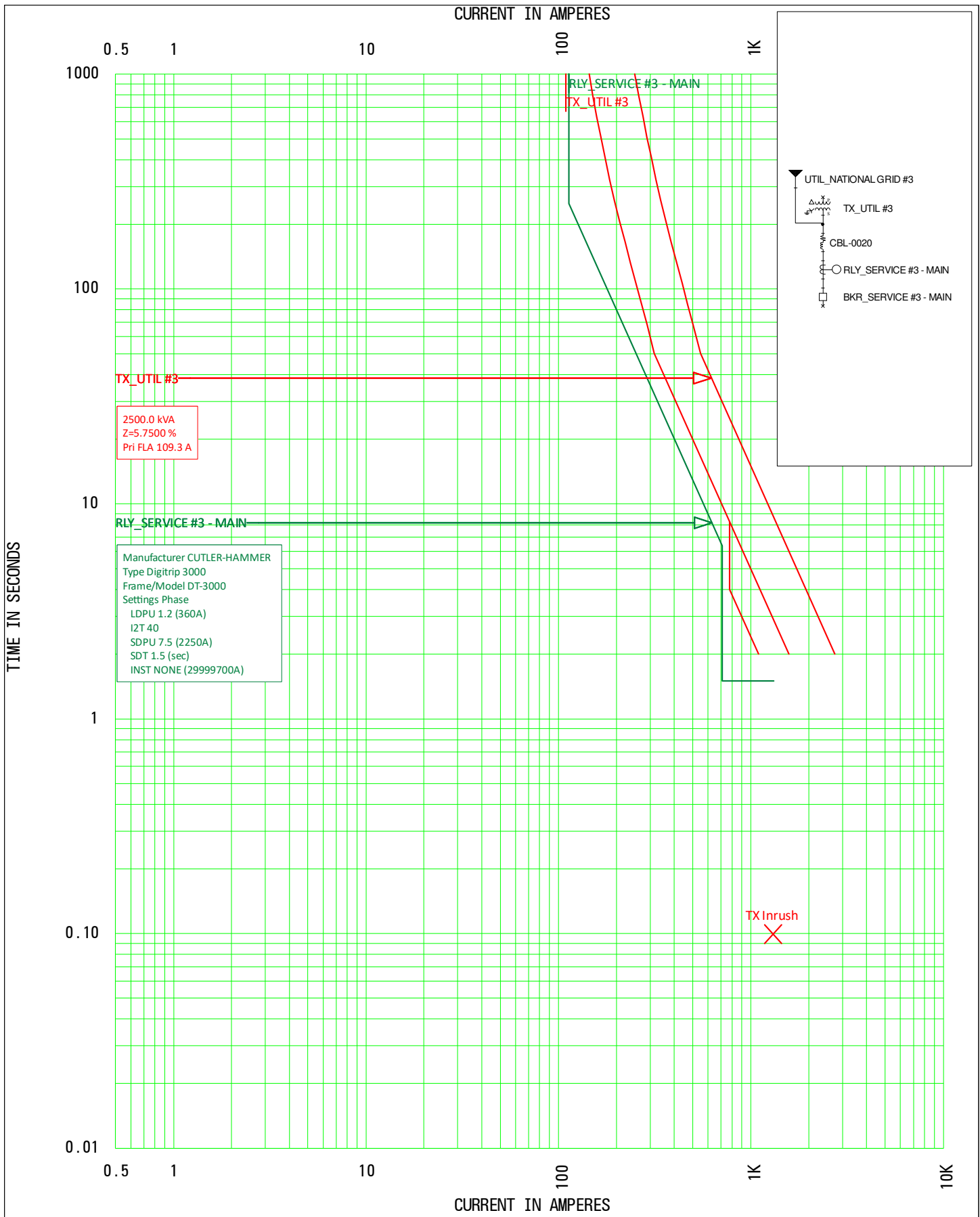BKR_SERVICE #2 - MAIN

CURRENT IN AMPERES

TCC Name: TCC_002_TX_UTIL #2
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 13200V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

TIME IN SECONDS

RLY_SERVICE #3 - MAIN
TX_UTIL #3

UTIL_NATIONAL GRID #3
TX_UTIL #3
CBL-0020
RLY_SERVICE #3 - MAIN
BKR_SERVICE #3 - MAIN

TX_UTIL #3

2500.0 kVA
Z=5.7500 %
Pri FLA 109.3 A

RLY_SERVICE #3 - MAIN

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1.2 (360A)
  I2T 40
  SDPU 7.5 (2250A)
  SDT 1.5 (sec)
  INST NONE (29999700A)

TX Inrush

CURRENT IN AMPERES

TCC Name: TCC_003_TX_UTIL #3
Project #810133
Recommendation_NEW

Reference Voltage: 13200V
Lowell General Hospital
Main Campus

Current Scale x 1

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_SERVICE #1 - MAIN - Phase

RLY_C-H ALT SWBD[E] - Phase
RLY_SERVICE #1 - MAIN - Phase
RLY_SERVICE#1 - SERVICE2 [TIE] - Phase
RLY_SERVICE #1 - T1-PPSS1 - Phase
RLY_SERVICE #1 - T2-PPSS2 - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1.2 (360A)
  I2T 40
  SDPU 7.5 (2250A)
  SDT 1.5 (sec)
  INST 20 (6000A)

RLY_SERVICE#1 - SERVICE2 [TIE] - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1.1 (330A)
  I2T 35
  SDPU 7 (2100A)
  SDT 1.25 (sec)
  INST 17.5 (5250A)

RLY_C-H ALT SWBD[E] - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
  Tap 4.0 (480A)
  Time Dial 10.0

RLY_SERVICE #1 - T1-PPSS1 - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1 (300A)
  I2T 30
  SDPU 6 (1800A)
  SDT 1.0 (sec)
  INST 15 (4500A)

RLY_SERVICE #1 - T2-PPSS2 - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1 (300A)
  I2T 15
  SDPU 2.5 (750A)
  SDT 0.45 (sec)
  INST 12.5 (3750A)

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram labels:
RLY_SERVICE #1 - MAIN
BKR_SERVICE #1 - MAIN
CBL-0002
RLY_C-H ALT SWBD[E]
BKR_C-H ALT SWBD[E]
CBL-0027
ATS_SERVICE #1
ATS_SERVICE #1
CBL-0001
SWBD_SERVICE #1 ALTERNATE
BKR_SERVICE #1 - T2-PPSS2
RLY_SERVICE #1 - T2-PPSS2
BKR_SERVICE #1 - T1-PPSS1
RLY_SERVICE #1 - T1-PPSS1
BKR_SERVICE#1 - SERVICE2 [TIE]
RLY_SERVICE#1 - SERVICE2[TIE]

TCC Name: TCC_004a_SWBD_SERVICE #1 ALTERNATE_ph
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
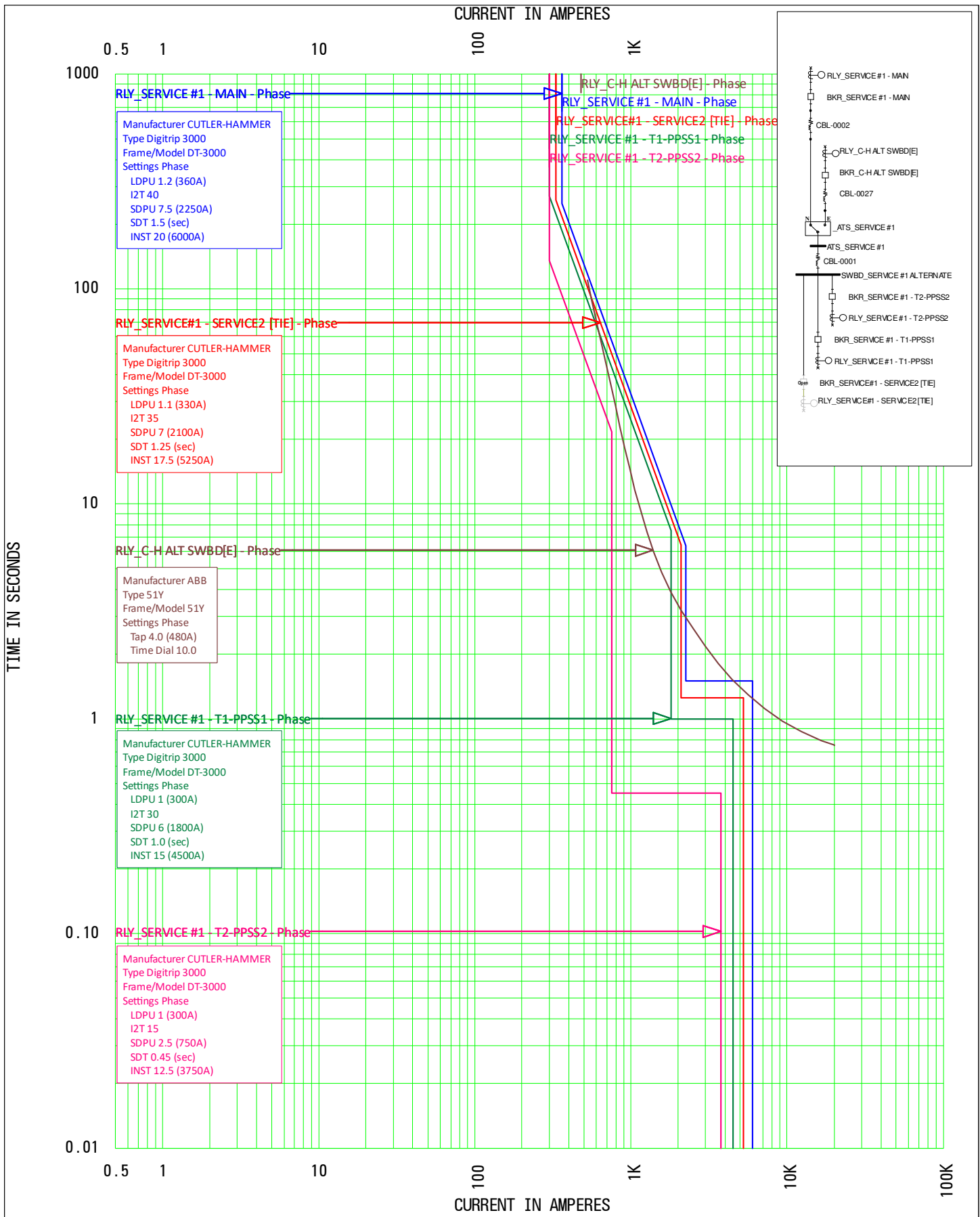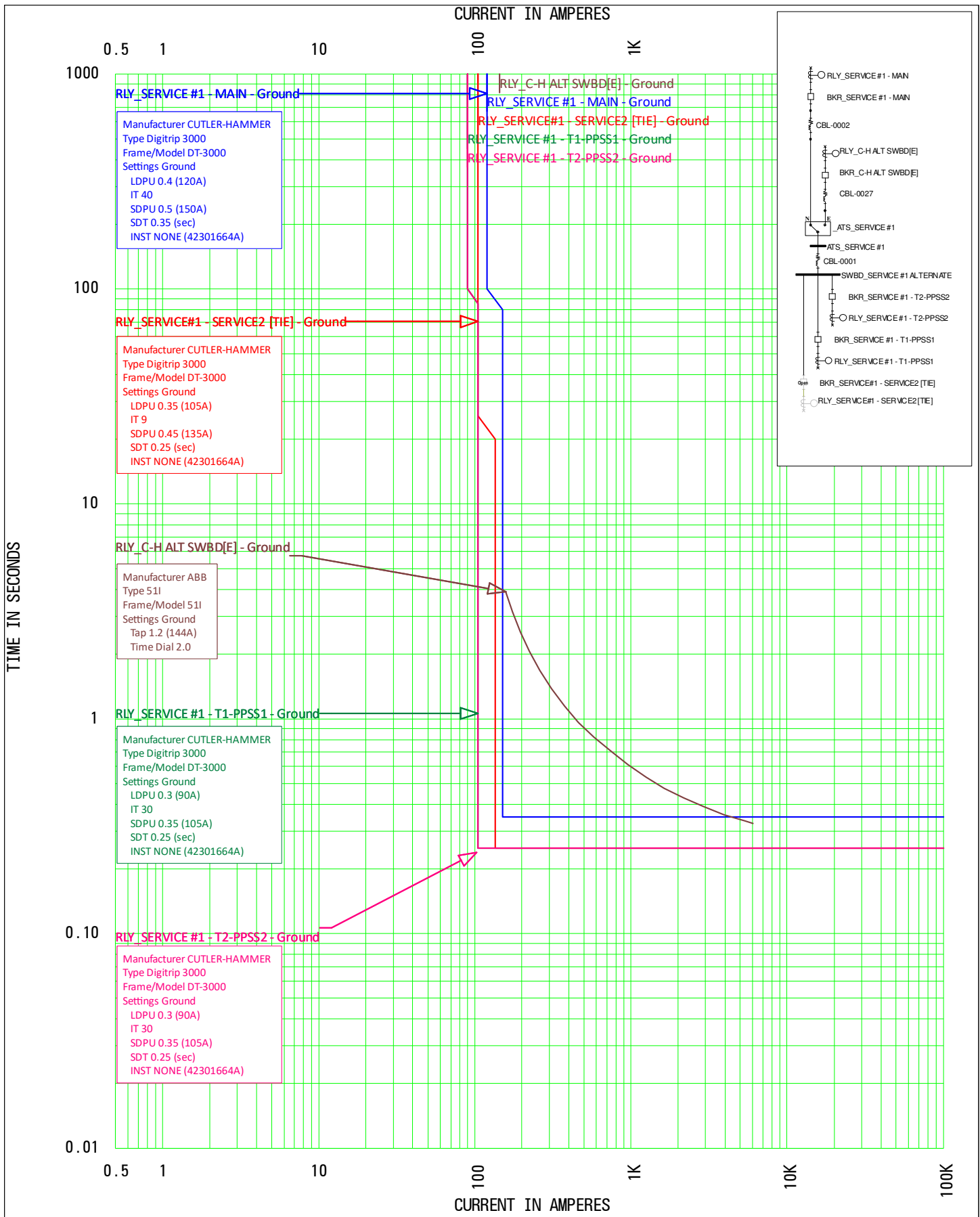Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

TIME IN SECONDS

RLY_SERVICE #1 - MAIN - Ground

RLY_C-H ALT SWBD[E] - Ground
RLY_SERVICE #1 - MAIN - Ground
RLY_SERVICE#1 - SERVICE2 [TIE] - Ground
RLY_SERVICE #1 - T1-PPSS1 - Ground
RLY_SERVICE #1 - T2-PPSS2 - Ground

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Ground
  LDPU 0.4 (120A)
  IT 40
  SDPU 0.5 (150A)
  SDT 0.35 (sec)
  INST NONE (42301664A)

RLY_SERVICE#1 - SERVICE2 [TIE] - Ground

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Ground
  LDPU 0.35 (105A)
  IT 9
  SDPU 0.45 (135A)
  SDT 0.25 (sec)
  INST NONE (42301664A)

RLY_C-H ALT SWBD[E] - Ground

Manufacturer ABB
Type 51I
Frame/Model 51I
Settings Ground
  Tap 1.2 (144A)
  Time Dial 2.0

RLY_SERVICE #1 - T1-PPSS1 - Ground

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Ground
  LDPU 0.3 (90A)
  IT 30
  SDPU 0.35 (105A)
  SDT 0.25 (sec)
  INST NONE (42301664A)

RLY_SERVICE #1 - T2-PPSS2 - Ground

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Ground
  LDPU 0.3 (90A)
  IT 30
  SDPU 0.35 (105A)
  SDT 0.25 (sec)
  INST NONE (42301664A)

One-line diagram (right panel)

RLY_SERVICE #1 - MAIN
BKR_SERVICE #1 - MAIN
CBL-0002
RLY_C-H ALT SWBD[E]
BKR_C-H ALT SWBD[E]
CBL-0027
ATS_SERVICE #1
ATS_SERVICE #1
CBL-0001
SWBD_SERVICE #1 ALTERNATE
BKR_SERVICE #1 - T2-PPSS2
RLY_SERVICE #1 - T2-PPSS2
BKR_SERVICE #1 - T1-PPSS1
RLY_SERVICE #1 - T1-PPSS1
BKR_SERVICE#1 - SERVICE2 [TIE]
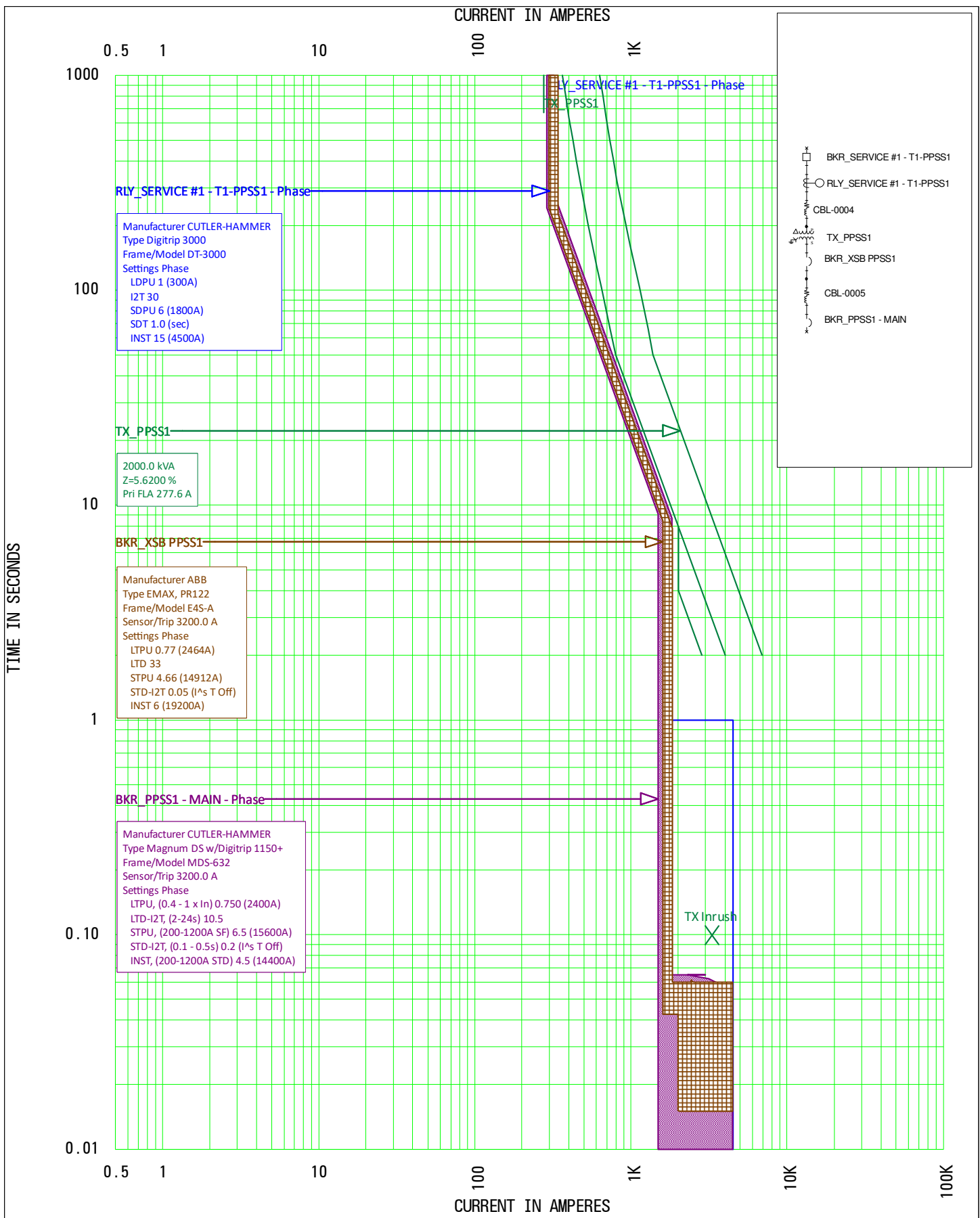RLY_SERVICE#1 - SERVICE2[TIE]

CURRENT IN AMPERES

TCC Name: TCC_004b_SWBD_SERVICE #1 ALTERNATE_ne
Project #810133
Recommendation_NEW

Current Scale x 1

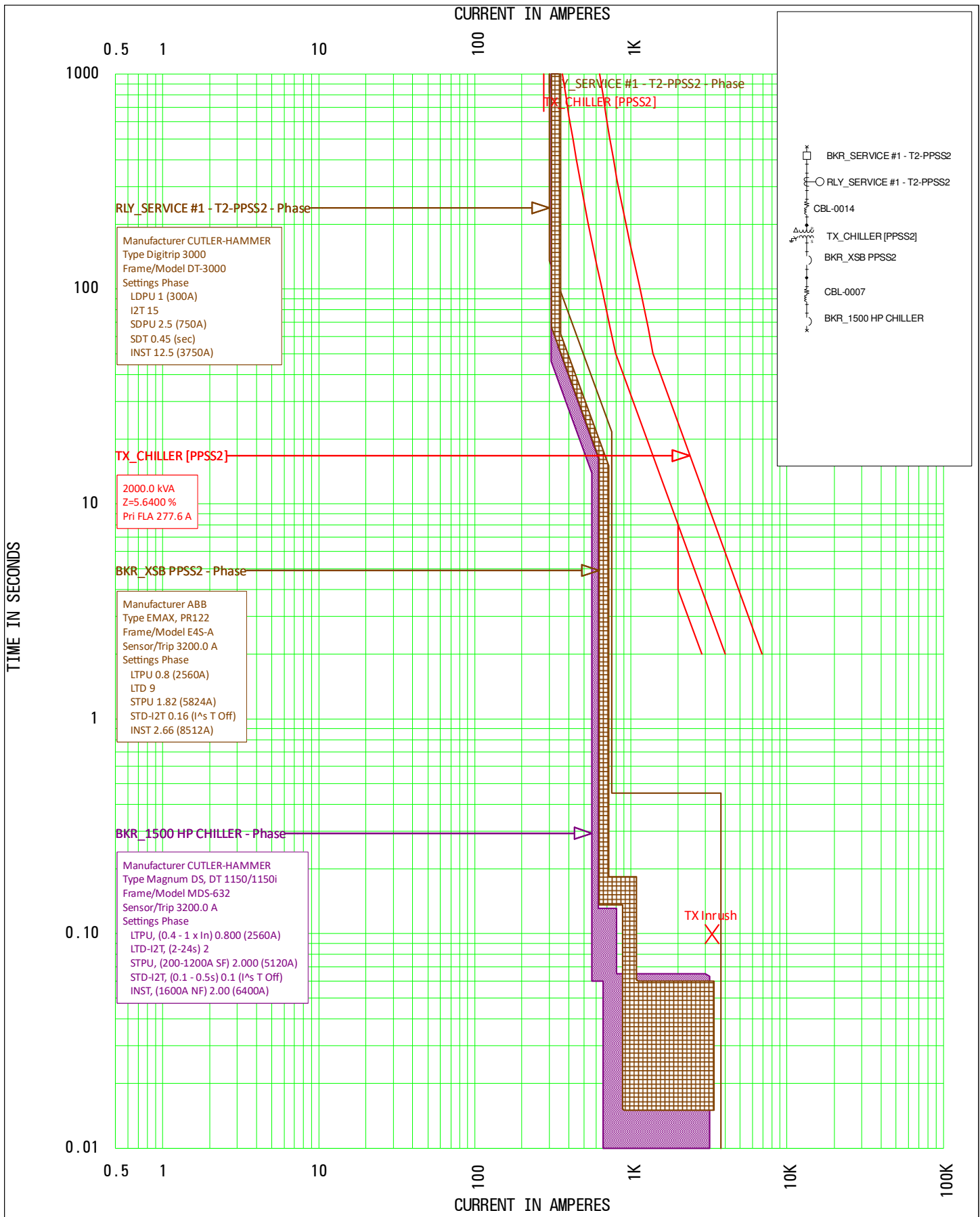Reference Voltage: 4160V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_SERVICE #1 - T1-PPSS1 - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1 (300A)
  I2T 30
  SDPU 6 (1800A)
  SDT 1.0 (sec)
  INST 15 (4500A)

RLY_SERVICE #1 - T1-PPSS1 - Phase
TX_PPSS1

TX_PPSS1

2000.0 kVA
Z=5.6200 %
Pri FLA 277.6 A

BKR_XSB PPSS1

Manufacturer ABB
Type EMAX, PR122
Frame/Model E4S-A
Sensor/Trip 3200.0 A
Settings Phase
  LTPU 0.77 (2464A)
  LTD 33
  STPU 4.66 (14912A)
  STD-I2T 0.05 (I^s T Off)
  INST 6 (19200A)

BKR_PPSS1 - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.750 (2400A)
  LTD-I2T, (2-24s) 10.5
  STPU, (200-1200A SF) 6.5 (15600A)
  STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
  INST, (200-1200A STD) 4.5 (14400A)

TX Inrush

Legend:
- BKR_SERVICE #1 - T1-PPSS1
- RLY_SERVICE #1 - T1-PPSS1
- CBL-0004
- TX_PPSS1
- BKR_XSB PPSS1
- CBL-0005
- BKR_PPSS1 - MAIN

CURRENT IN AMPERES

TIME IN SECONDS

TCC Name: TCC_005_TX_PPSS1
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

CURRENT IN AMPERES

0.5 1 10 100 1K

TIME IN SECONDS

1000

RLY_SERVICE #1 - T2-PPSS2 - Phase
TX CHILLER [PPSS2]

RLY_SERVICE #1 - T2-PPSS2 - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
    LDPU 1 (300A)
    I2T 15
    SDPU 2.5 (750A)
    SDT 0.45 (sec)
    INST 12.5 (3750A)

100

TX_CHILLER [PPSS2]

2000.0 kVA
Z=5.6400 %
Pri FLA 277.6 A

10

BKR_XSB PPSS2 - Phase

Manufacturer ABB
Type EMAX, PR122
Frame/Model E4S-A
Sensor/Trip 3200.0 A
Settings Phase
    LTPU 0.8 (2560A)
    LTD 9
    STPU 1.82 (5824A)
    STD-I2T 0.16 (I^s T Off)
    INST 2.66 (8512A)

1

BKR_1500 HP CHILLER - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS, DT 1150/1150i
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Phase
    LTPU, (0.4 - 1 x In) 0.800 (2560A)
    LTD-I2T, (2-24s) 2
    STPU, (200-1200A SF) 2.000 (5120A)
    STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
    INST, (1600A NF) 2.00 (6400A)

0.10

TX Inrush

0.01

0.5 1 10 100 1K 10K 100K

CURRENT IN AMPERES

BKR_SERVICE #1 - T2-PPSS2
RLY_SERVICE #1 - T2-PPSS2
CBL-0014
TX_CHILLER [PPSS2]
BKR_XSB PPSS2
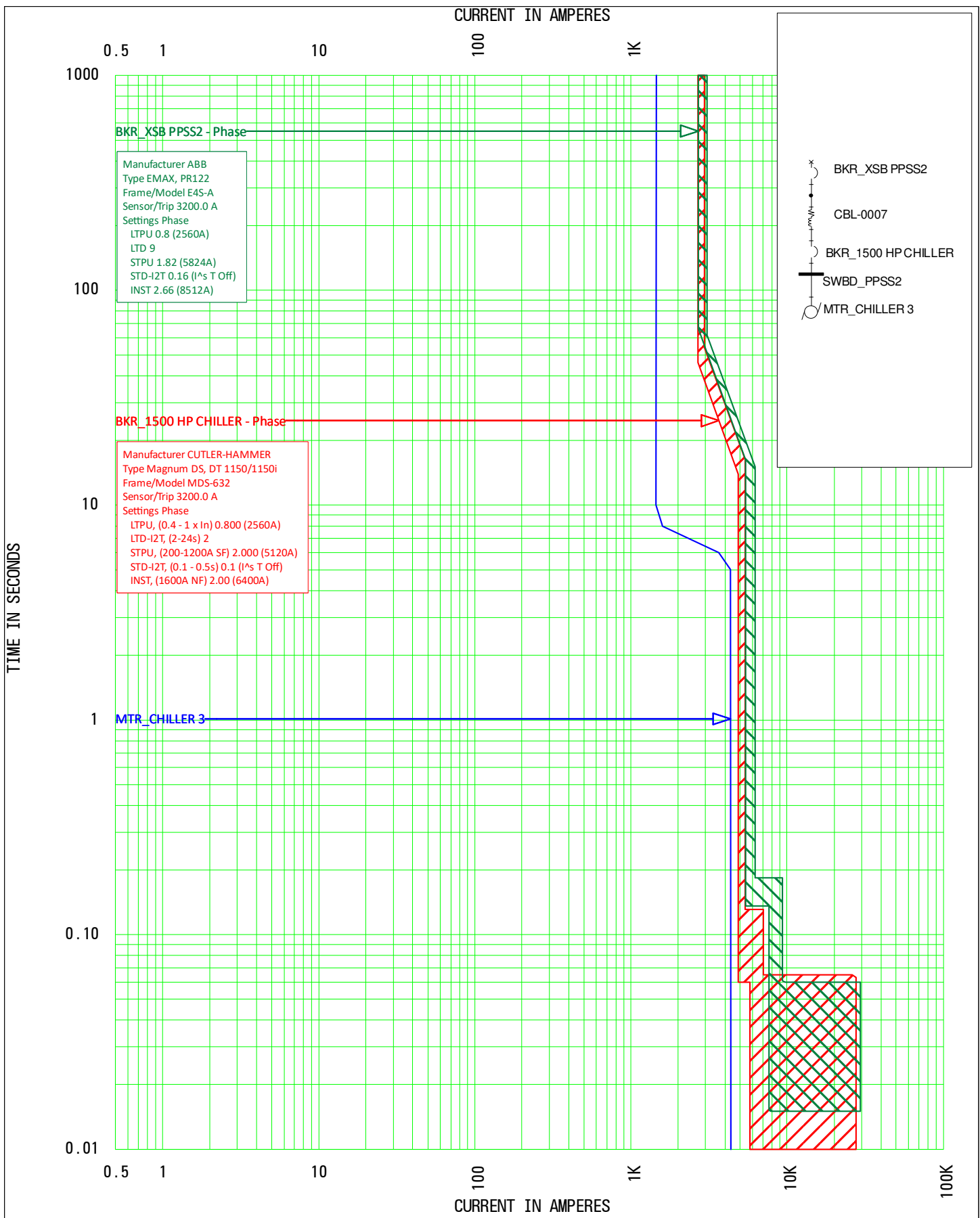CBL-0007
BKR_1500 HP CHILLER

TCC Name: TCC_006_TX_PPSS2
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

CURRENT IN AMPERES (top)

- 0.5, 1, 10, 100, 1K (top axis)

TIME IN SECONDS (vertical axis): 1000, 100, 10, 1, 0.10, 0.01

BKR_XSB PPSS2 - Phase

Manufacturer ABB
Type EMAX, PR122
Frame/Model E4S-A
Sensor/Trip 3200.0 A
Settings Phase
 LTPU 0.8 (2560A)
 LTD 9
 STPU 1.82 (5824A)
 STD-I2T 0.16 (I^s T Off)
 INST 2.66 (8512A)

BKR_1500 HP CHILLER - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS, DT 1150/1150i
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Phase
 LTPU, (0.4 - 1 x In) 0.800 (2560A)
 LTD-I2T, (2-24s) 2
 STPU, (200-1200A SF) 2.000 (5120A)
 STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
 INST, (1600A NF) 2.00 (6400A)

MTR_CHILLER 3

Single-line diagram (right):
- BKR_XSB PPSS2
- CBL-0007
- BKR_1500 HP CHILLER
- SWBD_PPSS2
- MTR_CHILLER 3

CURRENT IN AMPERES (bottom)
- 0.5, 1, 10, 100, 1K, 10K, 100K

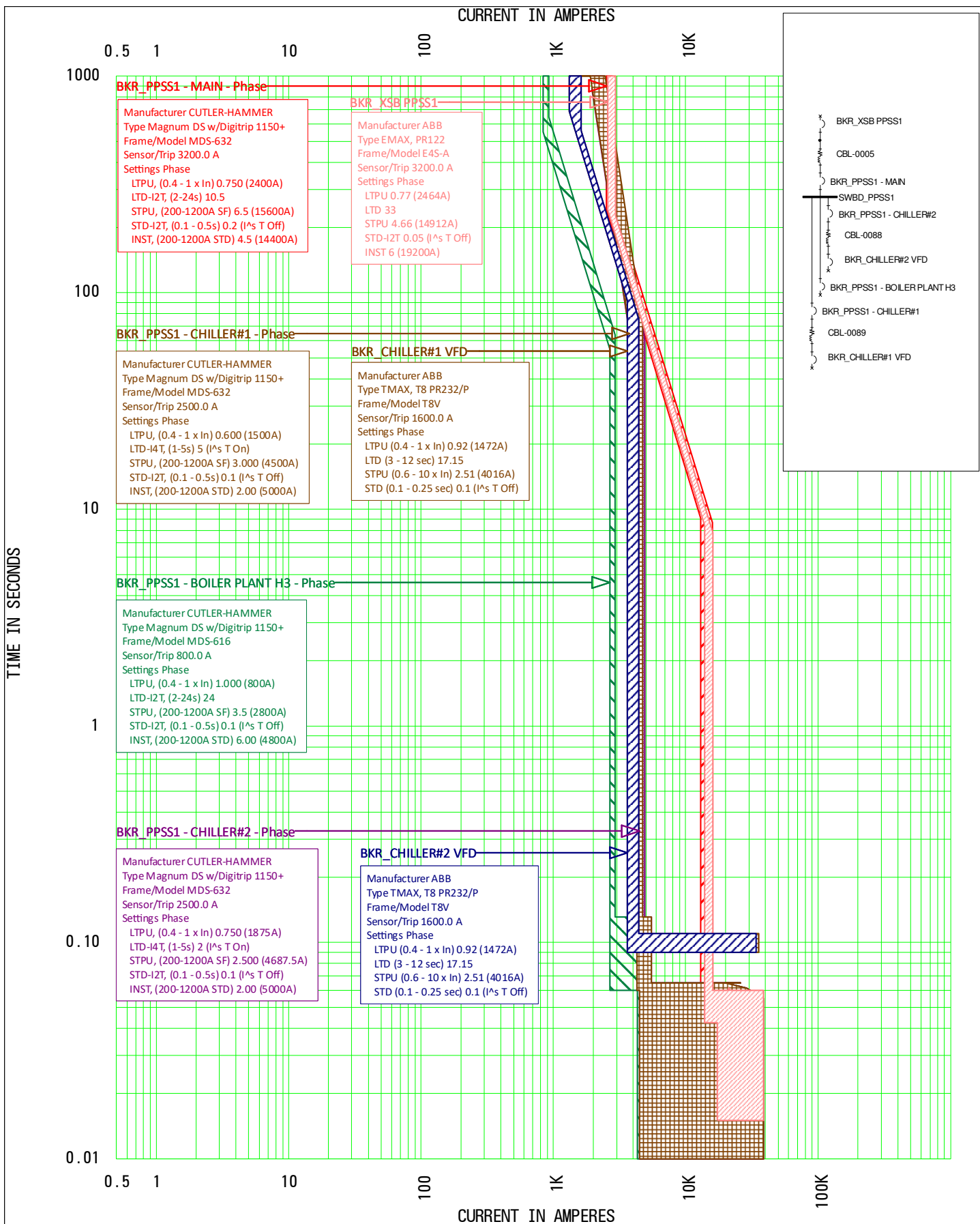TCC Name: TCC_007_MTR_CHILLER 3
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_PPSS1 - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Phase
 LTPU, (0.4 - 1 x In) 0.750 (2400A)
 LTD-I2T, (2-24s) 10.5
 STPU, (200-1200A SF) 6.5 (15600A)
 STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
 INST, (200-1200A STD) 4.5 (14400A)

BKR_XSB PPSS1

Manufacturer ABB
Type EMAX, PR122
Frame/Model E4S-A
Sensor/Trip 3200.0 A
Settings Phase
 LTPU 0.77 (2464A)
 LTD 33
 STPU 4.66 (14912A)
 STD-I2T 0.05 (I^s T Off)
 INST 6 (19200A)

BKR_PPSS1 - CHILLER#1 - Phase

BKR_CHILLER#1 VFD

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 2500.0 A
Settings Phase
 LTPU, (0.4 - 1 x In) 0.600 (1500A)
 LTD-I4T, (1-5s) 5 (I^s T On)
 STPU, (200-1200A SF) 3.000 (4500A)
 STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
 INST, (200-1200A STD) 2.00 (5000A)

Manufacturer ABB
Type TMAX, T8 PR232/P
Frame/Model T8V
Sensor/Trip 1600.0 A
Settings Phase
 LTPU (0.4 - 1 x In) 0.92 (1472A)
 LTD (3 - 12 sec) 17.15
 STPU (0.6 - 10 x In) 2.51 (4016A)
 STD (0.1 - 0.25 sec) 0.1 (I^s T Off)

BKR_PPSS1 - BOILER PLANT H3 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-616
Sensor/Trip 800.0 A
Settings Phase
 LTPU, (0.4 - 1 x In) 1.000 (800A)
 LTD-I2T, (2-24s) 24
 STPU, (200-1200A SF) 3.5 (2800A)
 STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
 INST, (200-1200A STD) 6.00 (4800A)

BKR_PPSS1 - CHILLER#2 - Phase

BKR_CHILLER#2 VFD

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 2500.0 A
Settings Phase
 LTPU, (0.4 - 1 x In) 0.750 (1875A)
 LTD-I4T, (1-5s) 2 (I^s T On)
 STPU, (200-1200A SF) 2.500 (4687.5A)
 STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
 INST, (200-1200A STD) 2.00 (5000A)

Manufacturer ABB
Type TMAX, T8 PR232/P
Frame/Model T8V
Sensor/Trip 1600.0 A
Settings Phase
 LTPU (0.4 - 1 x In) 0.92 (1472A)
 LTD (3 - 12 sec) 17.15
 STPU (0.6 - 10 x In) 2.51 (4016A)
 STD (0.1 - 0.25 sec) 0.1 (I^s T Off)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_XSB PPSS1
CBL-0005
BKR_PPSS1 - MAIN
SWBD_PPSS1
BKR_PPSS1 - CHILLER#2
CBL-0088
BKR_CHILLER#2 VFD
BKR_PPSS1 - BOILER PLANT H3
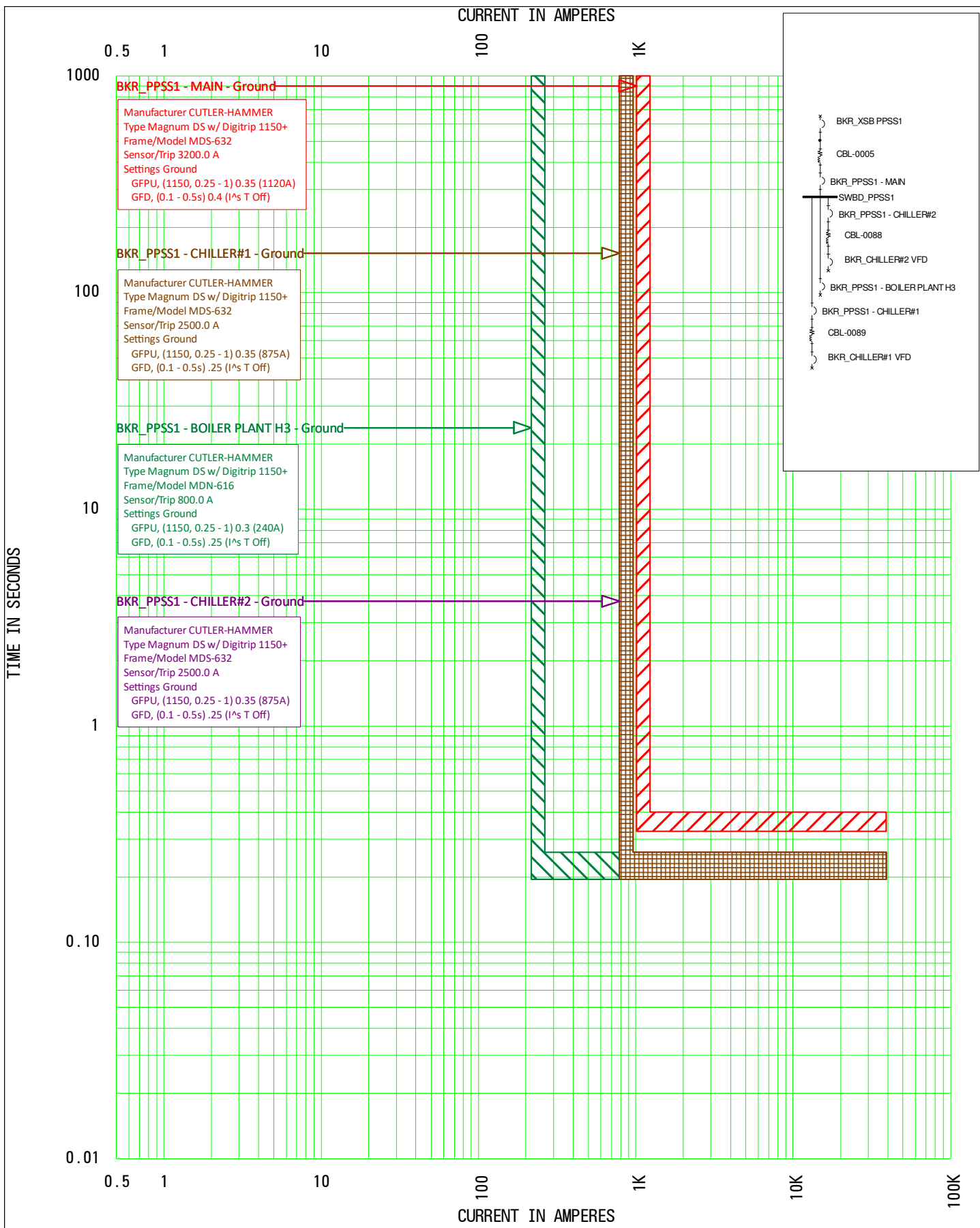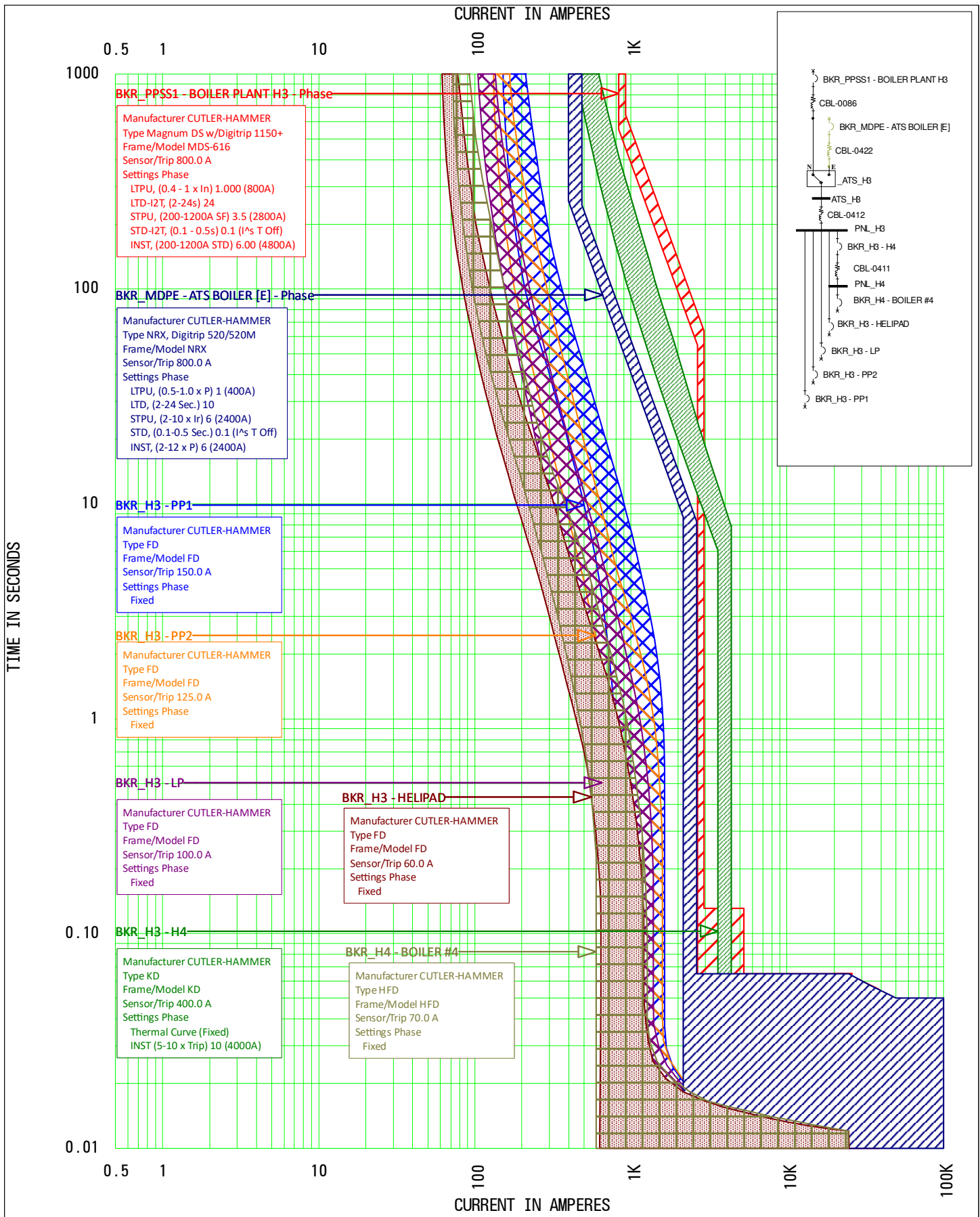BKR_PPSS1 - CHILLER#1
CBL-0089
BKR_CHILLER#1 VFD

TCC Name: TCC_008a_SWBD_PPSS1_ph
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_PPSS1 - MAIN - Ground

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Ground
  GFPU, (1150, 0.25 - 1) 0.35 (1120A)
  GFD, (0.1 - 0.5s) 0.4 (I^s T Off)

BKR_PPSS1 - CHILLER#1 - Ground

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 2500.0 A
Settings Ground
  GFPU, (1150, 0.25 - 1) 0.35 (875A)
  GFD, (0.1 - 0.5s) .25 (I^s T Off)

BKR_PPSS1 - BOILER PLANT H3 - Ground

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDN-616
Sensor/Trip 800.0 A
Settings Ground
  GFPU, (1150, 0.25 - 1) 0.3 (240A)
  GFD, (0.1 - 0.5s) .25 (I^s T Off)

BKR_PPSS1 - CHILLER#2 - Ground

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 2500.0 A
Settings Ground
  GFPU, (1150, 0.25 - 1) 0.35 (875A)
  GFD, (0.1 - 0.5s) .25 (I^s T Off)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_XSB PPSS1
CBL-0005
BKR_PPSS1 - MAIN
SWBD_PPSS1
BKR_PPSS1 - CHILLER#2
CBL-0088
BKR_CHILLER#2 VFD
BKR_PPSS1 - BOILER PLANT H3
BKR_PPSS1 - CHILLER#1
CBL-0089
BKR_CHILLER#1 VFD

TCC Name: TCC_008b_SWBD_PPSS1_ne
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

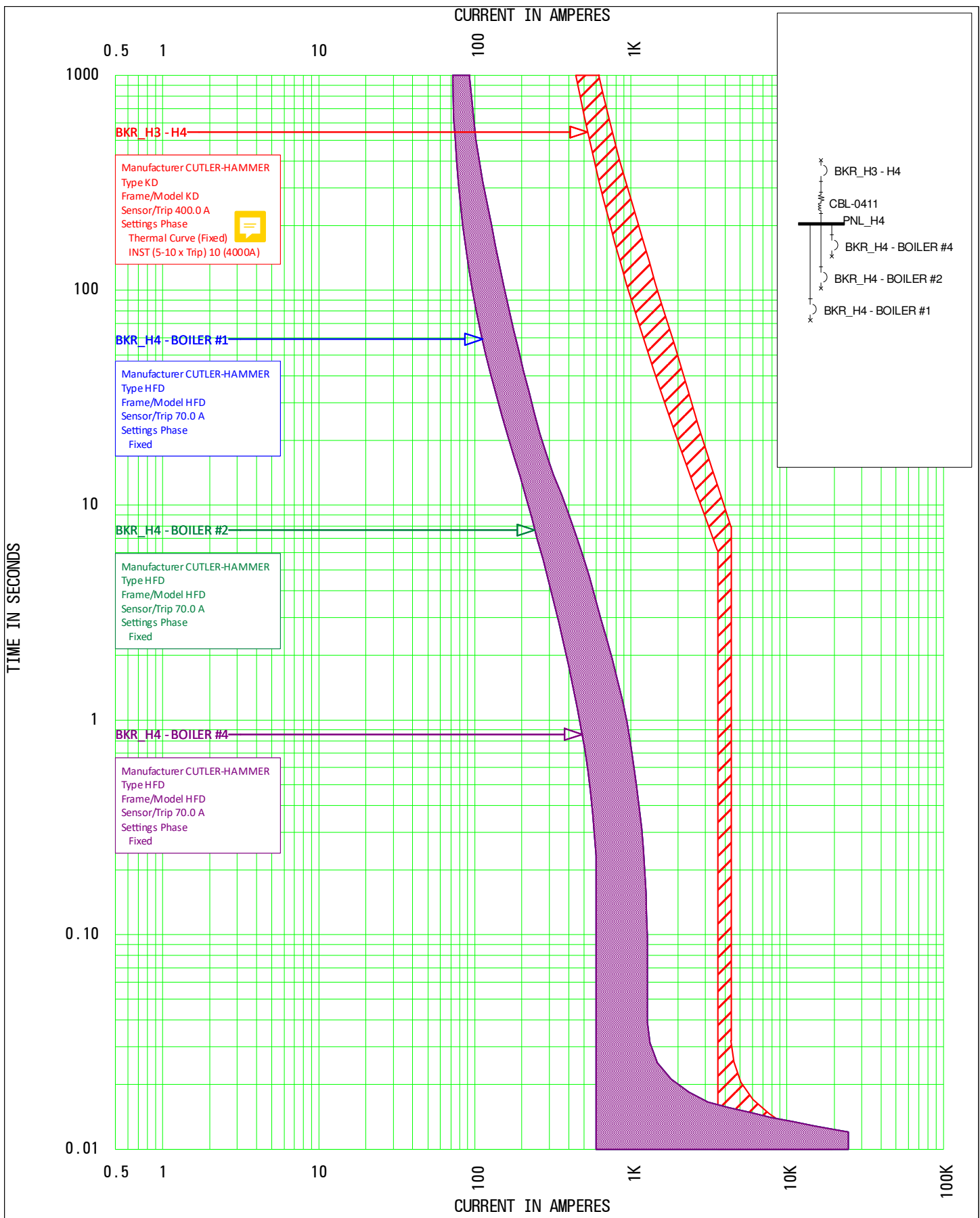CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_PPSS1 - BOILER PLANT H3 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-616
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (800A)
  LTD-I2T, (2-24s) 24
  STPU, (200-1200A SF) 3.5 (2800A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) 6.00 (4800A)

BKR_MDPE - ATS BOILER [E] - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 1 (400A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 6 (2400A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) 6 (2400A)

BKR_H3 - PP1

Manufacturer CUTLER-HAMMER
Type FD
Frame/Model FD
Sensor/Trip 150.0 A
Settings Phase
  Fixed

BKR_H3 - PP2

Manufacturer CUTLER-HAMMER
Type FD
Frame/Model FD
Sensor/Trip 125.0 A
Settings Phase
  Fixed

BKR_H3 - LP

Manufacturer CUTLER-HAMMER
Type FD
Frame/Model FD
Sensor/Trip 100.0 A
Settings Phase
  Fixed

BKR_H3 - HELIPAD

Manufacturer CUTLER-HAMMER
Type FD
Frame/Model FD
Sensor/Trip 60.0 A
Settings Phase
  Fixed

BKR_H3 - H4

Manufacturer CUTLER-HAMMER
Type KD
Frame/Model KD
Sensor/Trip 400.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (5-10 x Trip) 10 (4000A)

BKR_H4 - BOILER #4

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 70.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram labels:
BKR_PPSS1 - BOILER PLANT H3
CBL-0086
BKR_MDPE - ATS BOILER [E]
CBL-0422
_ATS_H3
ATS_H3
CBL-0412
PNL_H3
BKR_H3 - H4
CBL-0411
PNL_H4
BKR_H4 - BOILER #4
BKR_H3 - HELIPAD
BKR_H3 - LP
BKR_H3 - PP2
BKR_H3 - PP1

TCC Name: TCC_010_PNL_H3
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
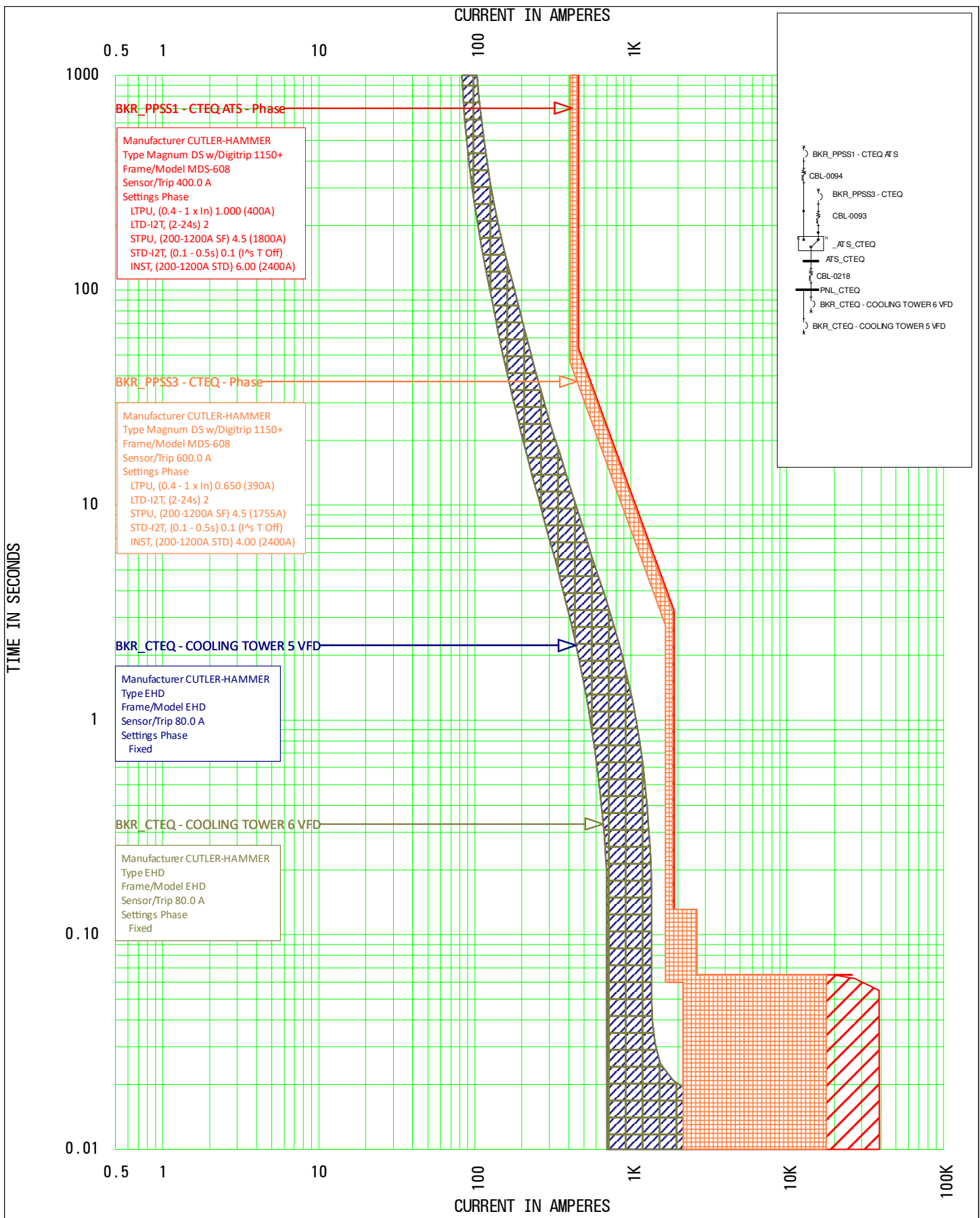Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_H3 - H4

Manufacturer CUTLER-HAMMER
Type KD
Frame/Model KD
Sensor/Trip 400.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (5-10 x Trip) 10 (4000A)

BKR_H4 - BOILER #1

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 70.0 A
Settings Phase
  Fixed

BKR_H4 - BOILER #2

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 70.0 A
Settings Phase
  Fixed

BKR_H4 - BOILER #4

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 70.0 A
Settings Phase
  Fixed

TIME IN SECONDS

BKR_H3 - H4
CBL-0411
PNL_H4
BKR_H4 - BOILER #4
BKR_H4 - BOILER #2
BKR_H4 - BOILER #1

CURRENT IN AMPERES

TCC Name: TCC_011_PNL_H4
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus
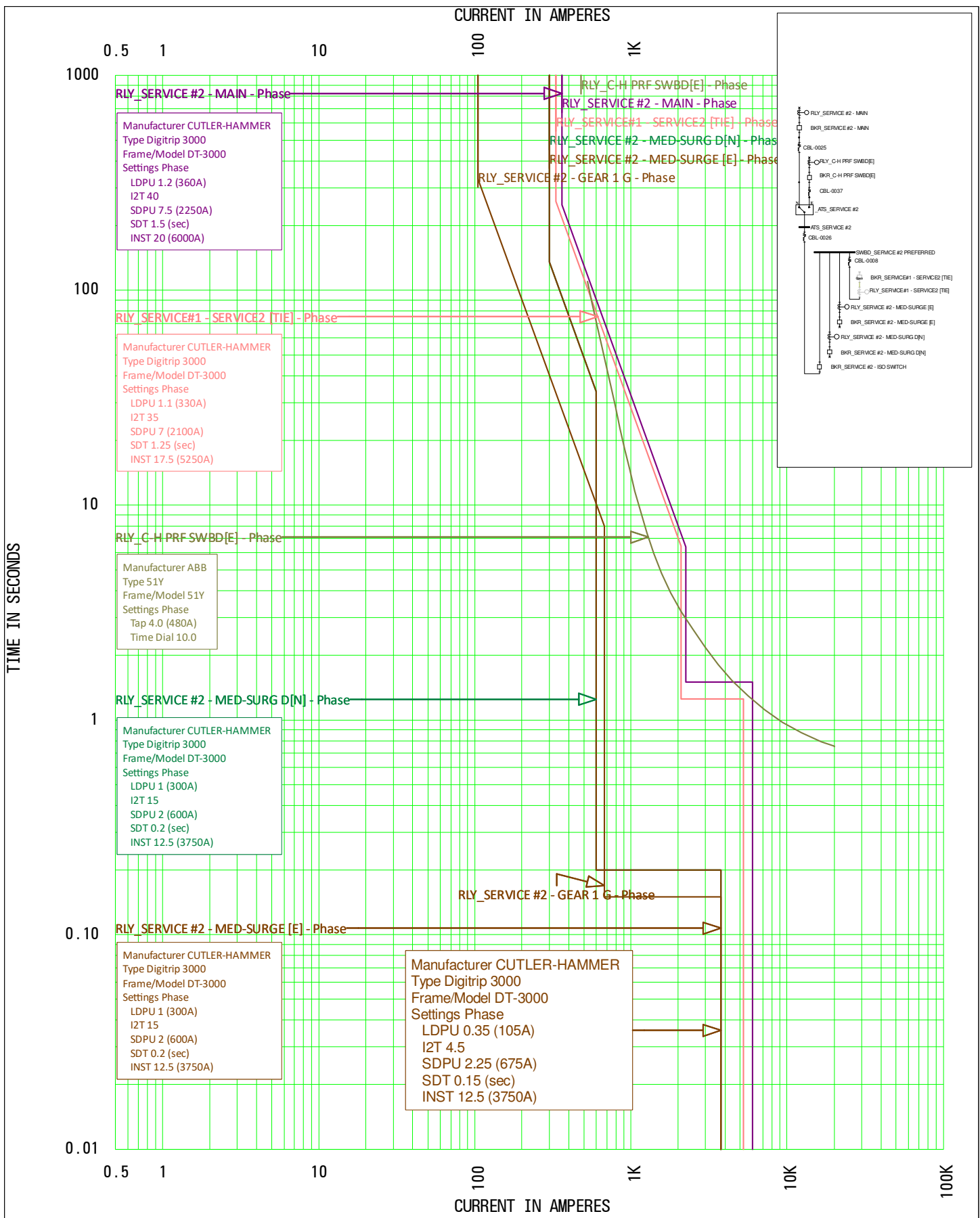
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_PPSS1 - CTEQ ATS - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 400.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (400A)
  LTD-I2T, (2-24s) 2
  STPU, (200-1200A SF) 4.5 (1800A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) 6.00 (2400A)

BKR_PPSS3 - CTEQ - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 600.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.650 (390A)
  LTD-I2T, (2-24s) 2
  STPU, (200-1200A SF) 4.5 (1755A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) 4.00 (2400A)

BKR_CTEQ - COOLING TOWER 5 VFD

Manufacturer CUTLER-HAMMER
Type EHD
Frame/Model EHD
Sensor/Trip 80.0 A
Settings Phase
  Fixed

BKR_CTEQ - COOLING TOWER 6 VFD

Manufacturer CUTLER-HAMMER
Type EHD
Frame/Model EHD
Sensor/Trip 80.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

BKR_PPSS1 - CTEQ ATS
CBL-0094
BKR_PPSS3 - CTEQ
CBL-0093
_ATS_CTEQ
ATS_CTEQ
CBL-0218
PNL_CTEQ
BKR_CTEQ - COOLING TOWER 6 VFD
BKR_CTEQ - COOLING TOWER 5 VFD

TCC Name: TCC_013_PNL_CTEQ
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus
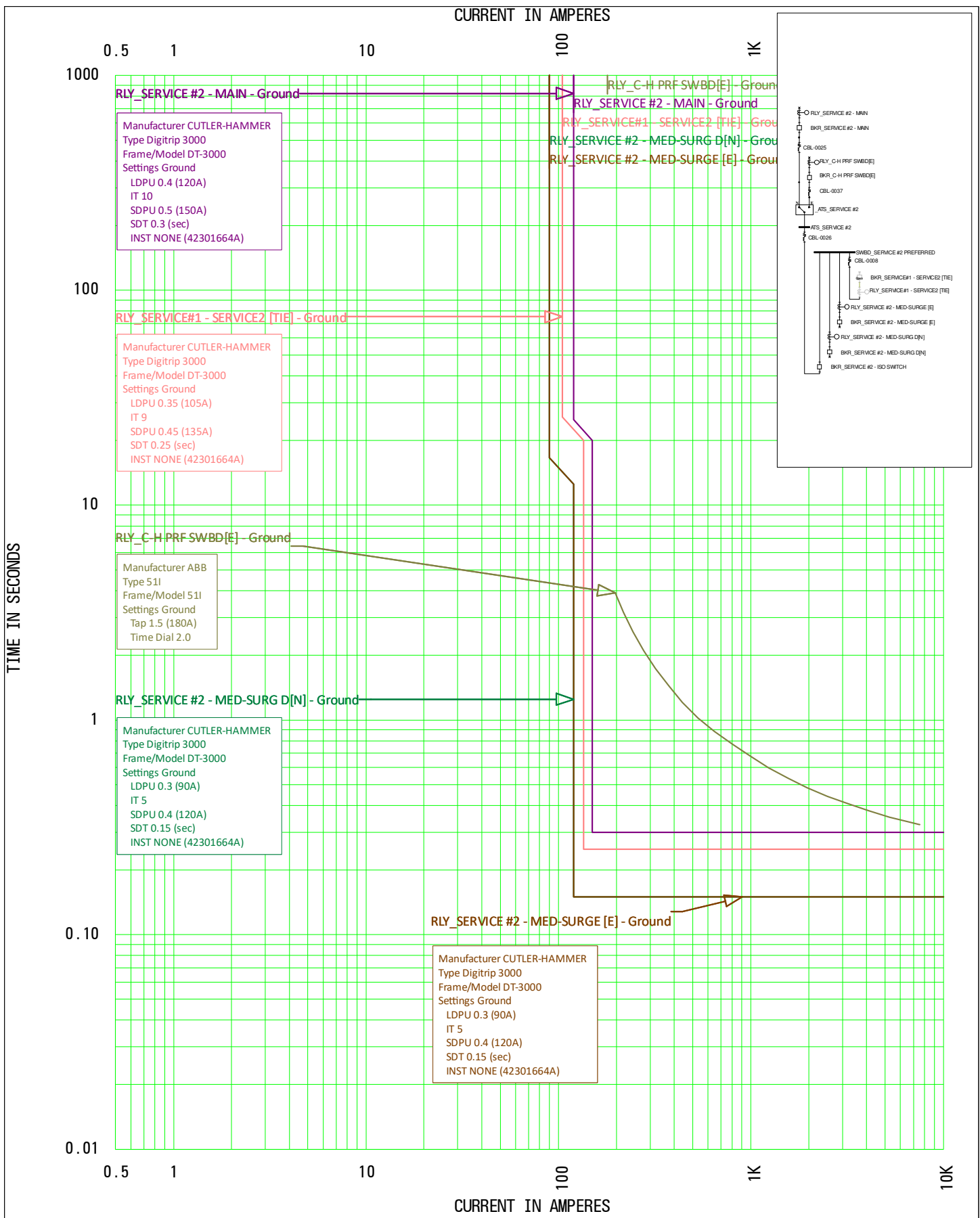
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_SERVICE #2 - MAIN - Phase

RLY_C-H PRF SWBD[E] - Phase
RLY_SERVICE #2 - MAIN - Phase
RLY_SERVICE#1 - SERVICE2 [TIE] - Phase
RLY_SERVICE #2 - MED-SURG D[N] - Phase
RLY_SERVICE #2 - MED-SURGE [E] - Phase
RLY_SERVICE #2 - GEAR 1 G - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1.2 (360A)
  I2T 40
  SDPU 7.5 (2250A)
  SDT 1.5 (sec)
  INST 20 (6000A)

RLY_SERVICE#1 - SERVICE2 [TIE] - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1.1 (330A)
  I2T 35
  SDPU 7 (2100A)
  SDT 1.25 (sec)
  INST 17.5 (5250A)

RLY_C-H PRF SWBD[E] - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
  Tap 4.0 (480A)
  Time Dial 10.0

RLY_SERVICE #2 - MED-SURG D[N] - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1 (300A)
  I2T 15
  SDPU 2 (600A)
  SDT 0.2 (sec)
  INST 12.5 (3750A)

RLY_SERVICE #2 - GEAR 1 G - Phase

RLY_SERVICE #2 - MED-SURGE [E] - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1 (300A)
  I2T 15
  SDPU 2 (600A)
  SDT 0.2 (sec)
  INST 12.5 (3750A)

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 0.35 (105A)
  I2T 4.5
  SDPU 2.25 (675A)
  SDT 0.15 (sec)
  INST 12.5 (3750A)

TIME IN SECONDS

CURRENT IN AMPERES

Single-line diagram labels:
RLY_SERVICE #2 - MAIN
BKR_SERVICE #2 - MAIN
CBL-0025
RLY_C-H PRF SWBD[E]
BKR_C-H PRF SWBD[E]
CBL-0037
ATS_SERVICE #2
ATS_SERVICE #2
CBL-0026
SWBD_SERVICE #2 PREFERRED
CBL-0008
BKR_SERVICE#1 - SERVICE2 [TIE]
RLY_SERVICE#1 - SERVICE2 [TIE]
RLY_SERVICE #2 - MED-SURGE [E]
BKR_SERVICE #2 - MED-SURGE [E]
RLY_SERVICE #2 - MED-SURG D[N]
BKR_SERVICE #2 - MED-SURG D[N]
BKR_SERVICE #2 - ISO SWITCH

TCC Name: TCC_017a_SWBD_SERVICE #2 PREFERRED_ph
Project #810133
Recommendation_NEW
Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
Main Campus

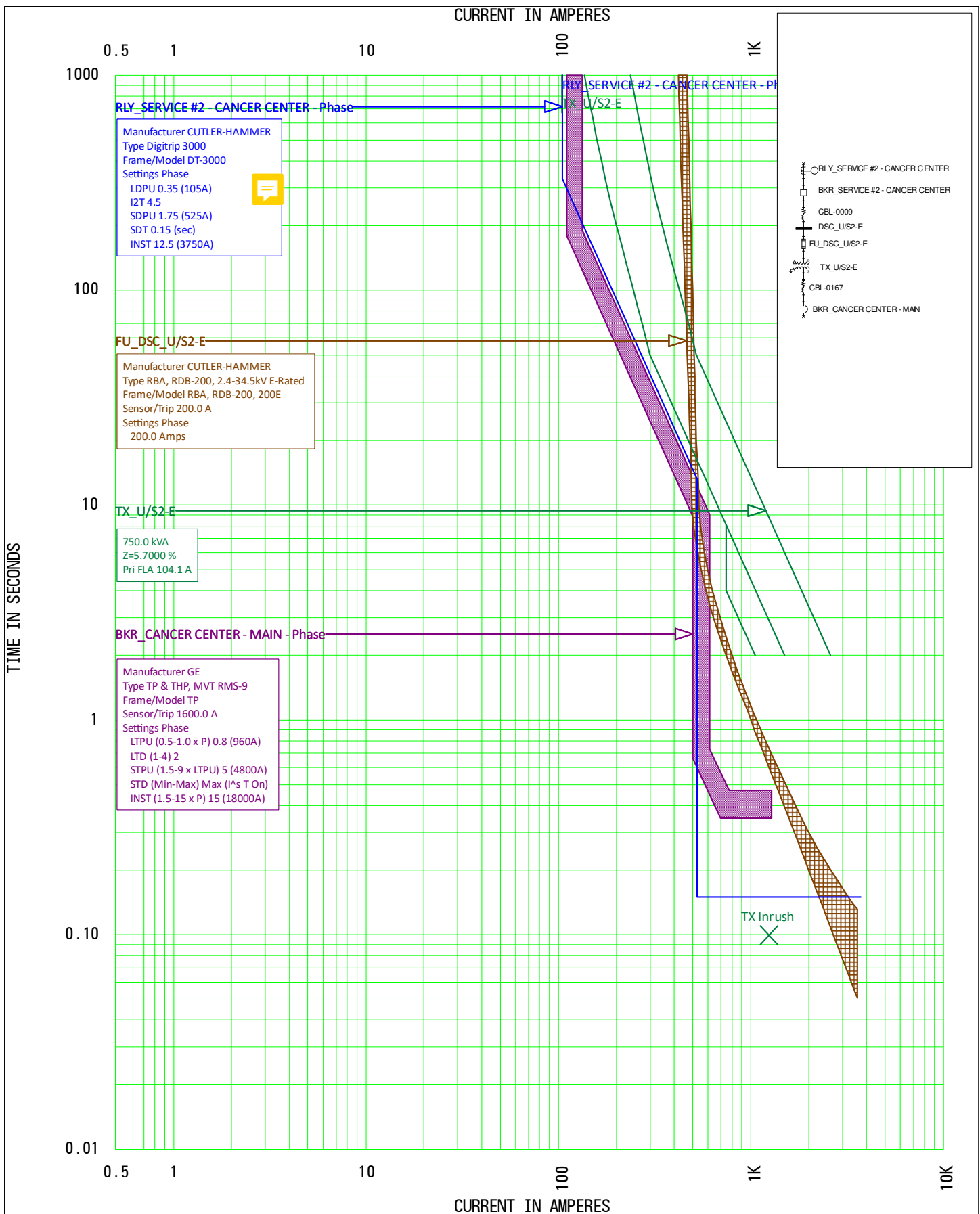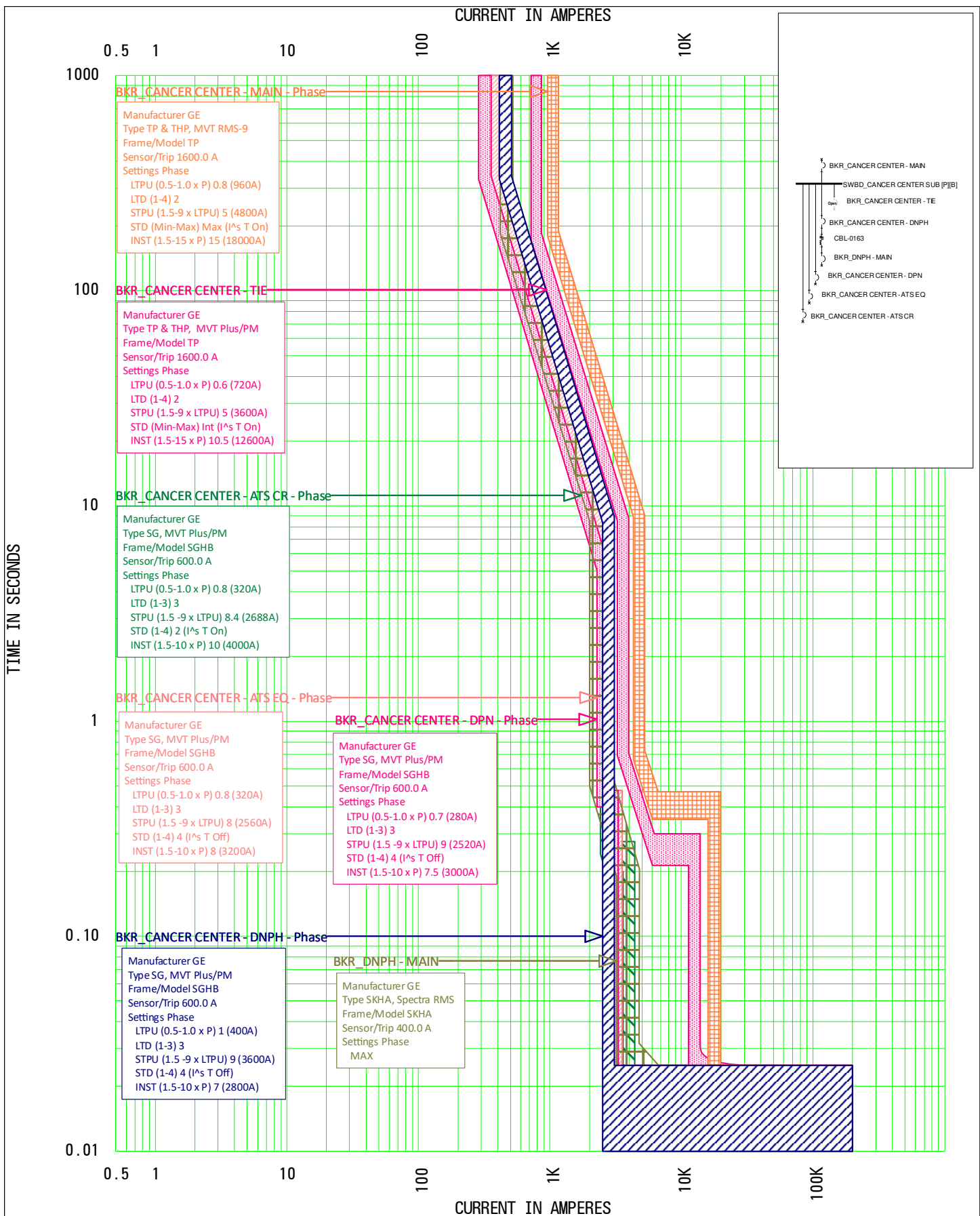CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_SERVICE #2 - MAIN - Ground

RLY_C-H PRF SWBD[E] - Ground
RLY_SERVICE #2 - MAIN - Ground
RLY_SERVICE#1 - SERVICE2 [TIE] - Grou
RLY_SERVICE #2 - MED-SURG D[N] - Grou
RLY_SERVICE #2 - MED-SURGE [E] - Groun

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Ground
  LDPU 0.4 (120A)
  IT 10
  SDPU 0.5 (150A)
  SDT 0.3 (sec)
  INST NONE (42301664A)

RLY_SERVICE#1 - SERVICE2 [TIE] - Ground

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Ground
  LDPU 0.35 (105A)
  IT 9
  SDPU 0.45 (135A)
  SDT 0.25 (sec)
  INST NONE (42301664A)

RLY_C-H PRF SWBD[E] - Ground

Manufacturer ABB
Type 51I
Frame/Model 51I
Settings Ground
  Tap 1.5 (180A)
  Time Dial 2.0

RLY_SERVICE #2 - MED-SURG D[N] - Ground

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Ground
  LDPU 0.3 (90A)
  IT 5
  SDPU 0.4 (120A)
  SDT 0.15 (sec)
  INST NONE (42301664A)

RLY_SERVICE #2 - MED-SURGE [E] - Ground

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Ground
  LDPU 0.3 (90A)
  IT 5
  SDPU 0.4 (120A)
  SDT 0.15 (sec)
  INST NONE (42301664A)

TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_017b_SWBD_SERVICE #2 PREFERRED_ne
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
Main Campus
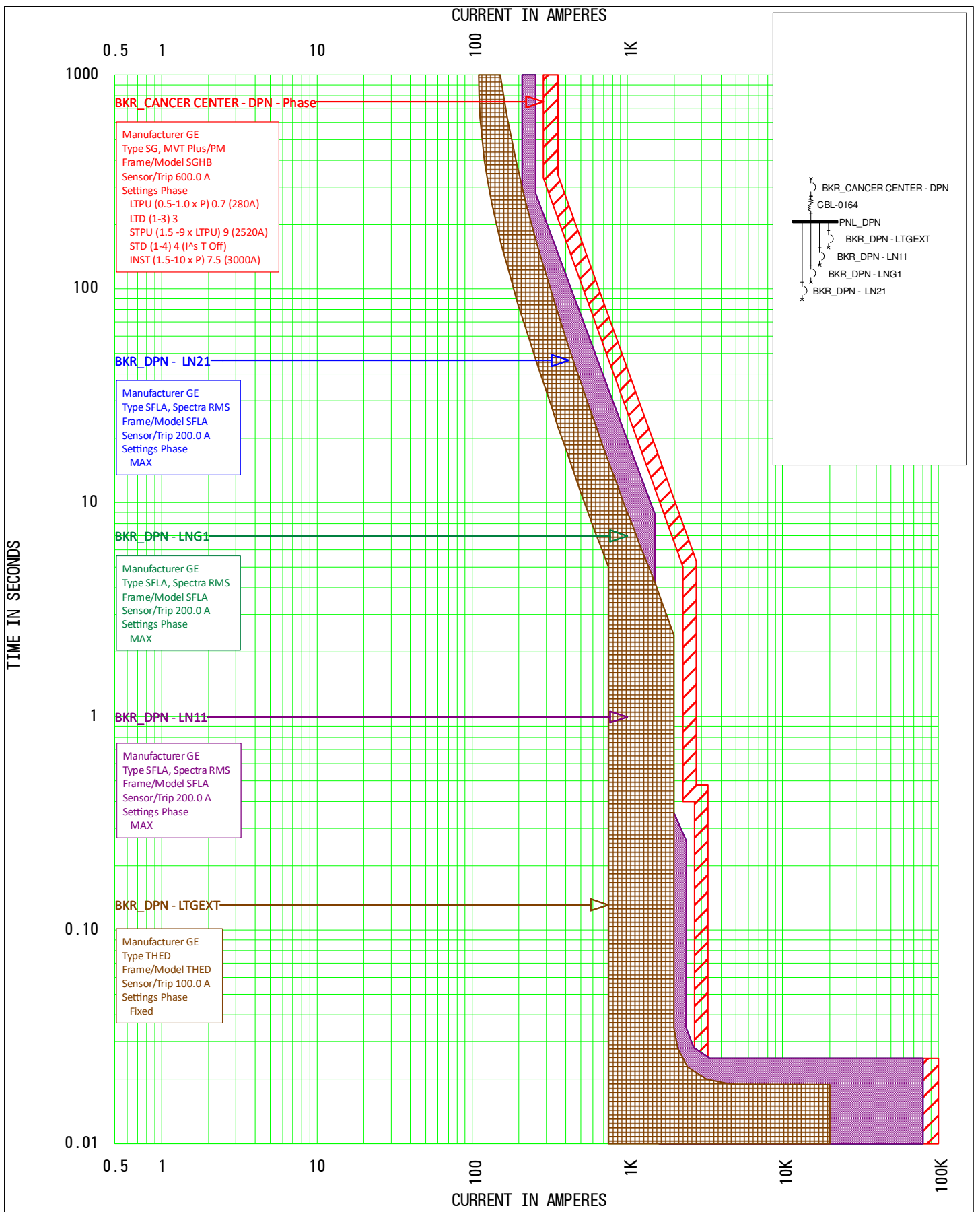
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_SERVICE #2 - CANCER CENTER - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 0.35 (105A)
  I2T 4.5
  SDPU 1.75 (525A)
  SDT 0.15 (sec)
  INST 12.5 (3750A)

FU_DSC_U/S2-E

Manufacturer CUTLER-HAMMER
Type RBA, RDB-200, 2.4-34.5kV E-Rated
Frame/Model RBA, RDB-200, 200E
Sensor/Trip 200.0 A
Settings Phase
  200.0 Amps

TX_U/S2-E

750.0 kVA
Z=5.7000 %
Pri FLA 104.1 A

BKR_CANCER CENTER - MAIN - Phase

Manufacturer GE
Type TP & THP, MVT RMS-9
Frame/Model TP
Sensor/Trip 1600.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 0.8 (960A)
  LTD (1-4) 2
  STPU (1.5-9 x LTPU) 5 (4800A)
  STD (Min-Max) Max (I^s T On)
  INST (1.5-15 x P) 15 (18000A)

TX Inrush

RLY_SERVICE #2 - CANCER CENTER
BKR_SERVICE #2 - CANCER CENTER
CBL-0009
DSC_U/S2-E
FU_DSC_U/S2-E
TX_U/S2-E
CBL-0167
BKR_CANCER CENTER - MAIN

TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_018_TX_U/S2-E
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
Main Campus

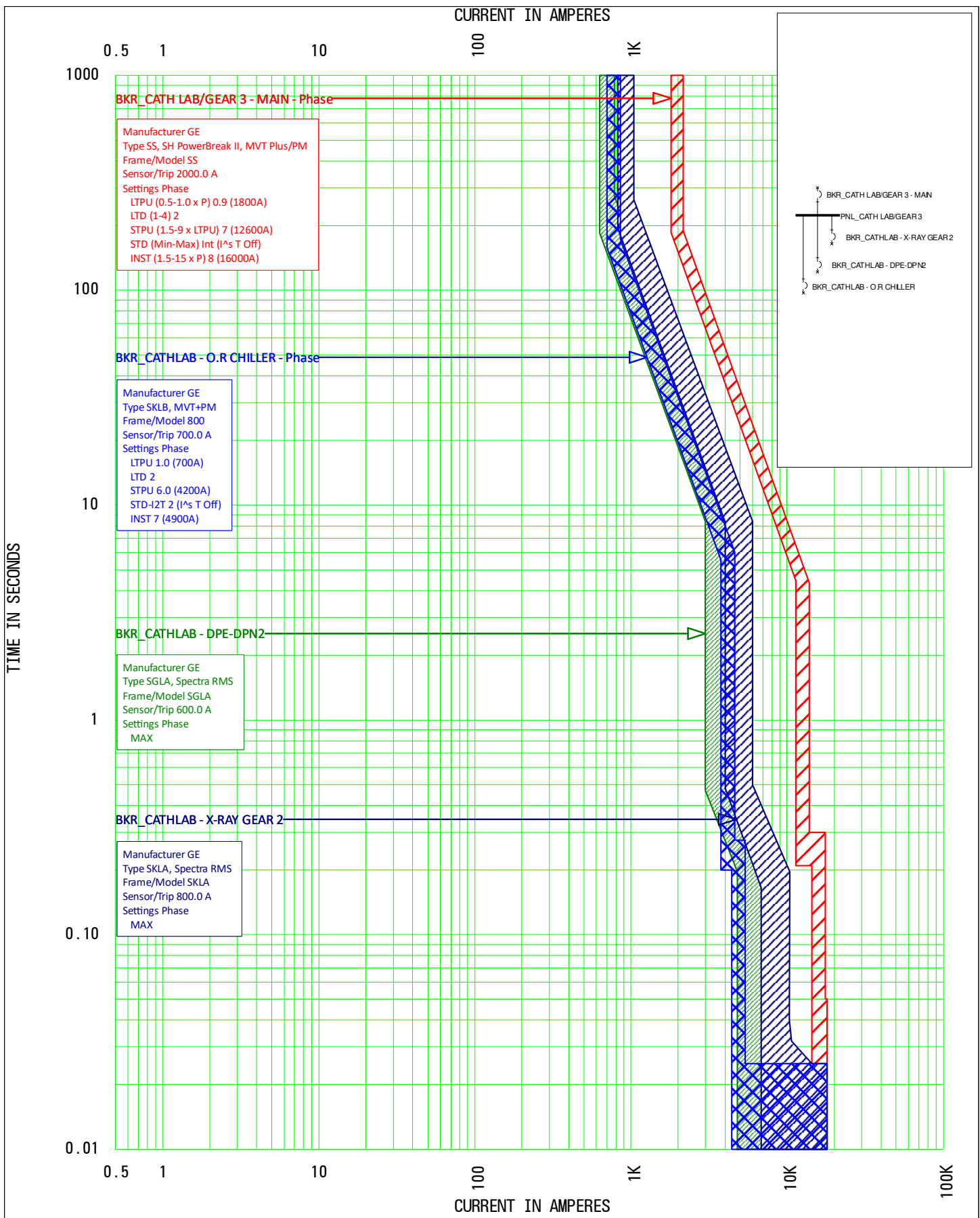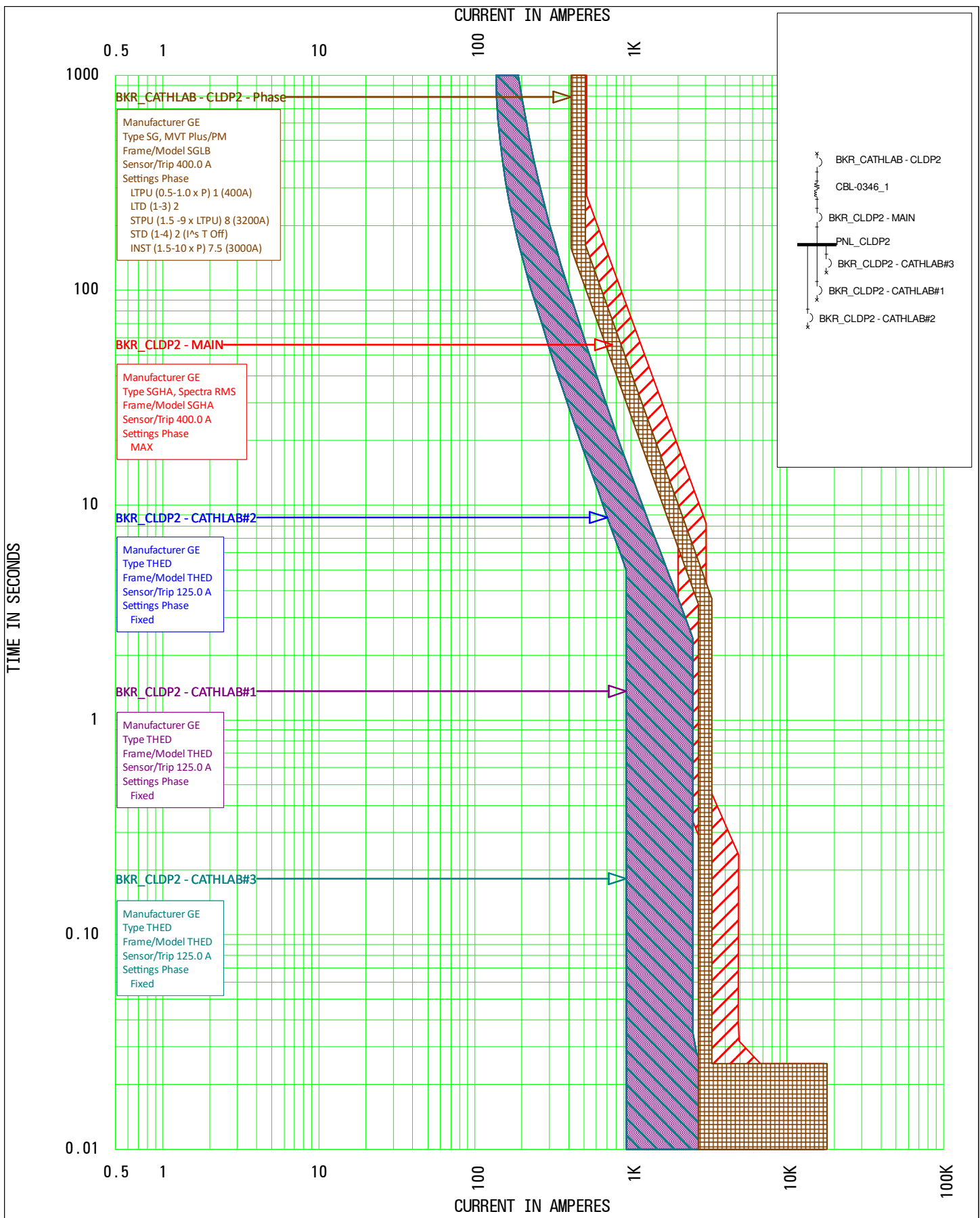**CE POWER**
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_CANCER CENTER - MAIN - Phase

Manufacturer GE
Type TP & THP, MVT RMS-9
Frame/Model TP
Sensor/Trip 1600.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 0.8 (960A)
  LTD (1-4) 2
  STPU (1.5-9 x LTPU) 5 (4800A)
  STD (Min-Max) Max (I^s T On)
  INST (1.5-15 x P) 15 (18000A)

BKR_CANCER CENTER - TIE

Manufacturer GE
Type TP & THP, MVT Plus/PM
Frame/Model TP
Sensor/Trip 1600.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 0.6 (720A)
  LTD (1-4) 2
  STPU (1.5-9 x LTPU) 5 (3600A)
  STD (Min-Max) Int (I^s T On)
  INST (1.5-15 x P) 10.5 (12600A)

BKR_CANCER CENTER - ATS CR - Phase

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGHB
Sensor/Trip 600.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 0.8 (320A)
  LTD (1-3) 3
  STPU (1.5 -9 x LTPU) 8.4 (2688A)
  STD (1-4) 2 (I^s T On)
  INST (1.5-10 x P) 10 (4000A)

BKR_CANCER CENTER - ATS EQ - Phase

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGHB
Sensor/Trip 600.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 0.8 (320A)
  LTD (1-3) 3
  STPU (1.5 -9 x LTPU) 8 (2560A)
  STD (1-4) 4 (I^s T Off)
  INST (1.5-10 x P) 8 (3200A)

BKR_CANCER CENTER - DPN - Phase

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGHB
Sensor/Trip 600.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 0.7 (280A)
  LTD (1-3) 3
  STPU (1.5 -9 x LTPU) 9 (2520A)
  STD (1-4) 4 (I^s T Off)
  INST (1.5-10 x P) 7.5 (3000A)

BKR_CANCER CENTER - DNPH - Phase

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGHB
Sensor/Trip 600.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 1 (400A)
  LTD (1-3) 3
  STPU (1.5 -9 x LTPU) 9 (3600A)
  STD (1-4) 4 (I^s T Off)
  INST (1.5-10 x P) 7 (2800A)

BKR_DNPH - MAIN

Manufacturer GE
Type SKHA, Spectra RMS
Frame/Model SKHA
Sensor/Trip 400.0 A
Settings Phase
  MAX

TIME IN SECONDS

CURRENT IN AMPERES

BKR_CANCER CENTER - MAIN
SWBD_CANCER CENTER SUB [P][B]
BKR_CANCER CENTER - TIE
BKR_CANCER CENTER - DNPH
CBL-0163
BKR_DNPH - MAIN
BKR_CANCER CENTER - DPN
BKR_CANCER CENTER - ATS EQ
BKR_CANCER CENTER - ATS CR

TCC Name: TCC_019_SWBD_CANCER CENTER SUB [P]
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

CURRENT IN AMPERES (top axis): 0.5, 1, 10, 100, 1K

TIME IN SECONDS (left axis): 1000, 100, 10, 1, 0.10, 0.01

BKR_CANCER CENTER - DPN - Phase

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGHB
Sensor/Trip 600.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 0.7 (280A)
  LTD (1-3) 3
  STPU (1.5 -9 x LTPU) 9 (2520A)
  STD (1-4) 4 (I^s T Off)
  INST (1.5-10 x P) 7.5 (3000A)

BKR_DPN - LN21

Manufacturer GE
Type SFLA, Spectra RMS
Frame/Model SFLA
Sensor/Trip 200.0 A
Settings Phase
  MAX

BKR_DPN - LNG1

Manufacturer GE
Type SFLA, Spectra RMS
Frame/Model SFLA
Sensor/Trip 200.0 A
Settings Phase
  MAX

BKR_DPN - LN11

Manufacturer GE
Type SFLA, Spectra RMS
Frame/Model SFLA
Sensor/Trip 200.0 A
Settings Phase
  MAX

BKR_DPN - LTGEXT

Manufacturer GE
Type THED
Frame/Model THED
Sensor/Trip 100.0 A
Settings Phase
  Fixed

Legend (right):
- BKR_CANCER CENTER - DPN
- CBL-0164
- PNL_DPN
- BKR_DPN - LTGEXT
- BKR_DPN - LN11
- BKR_DPN - LNG1
- BKR_DPN - LN21

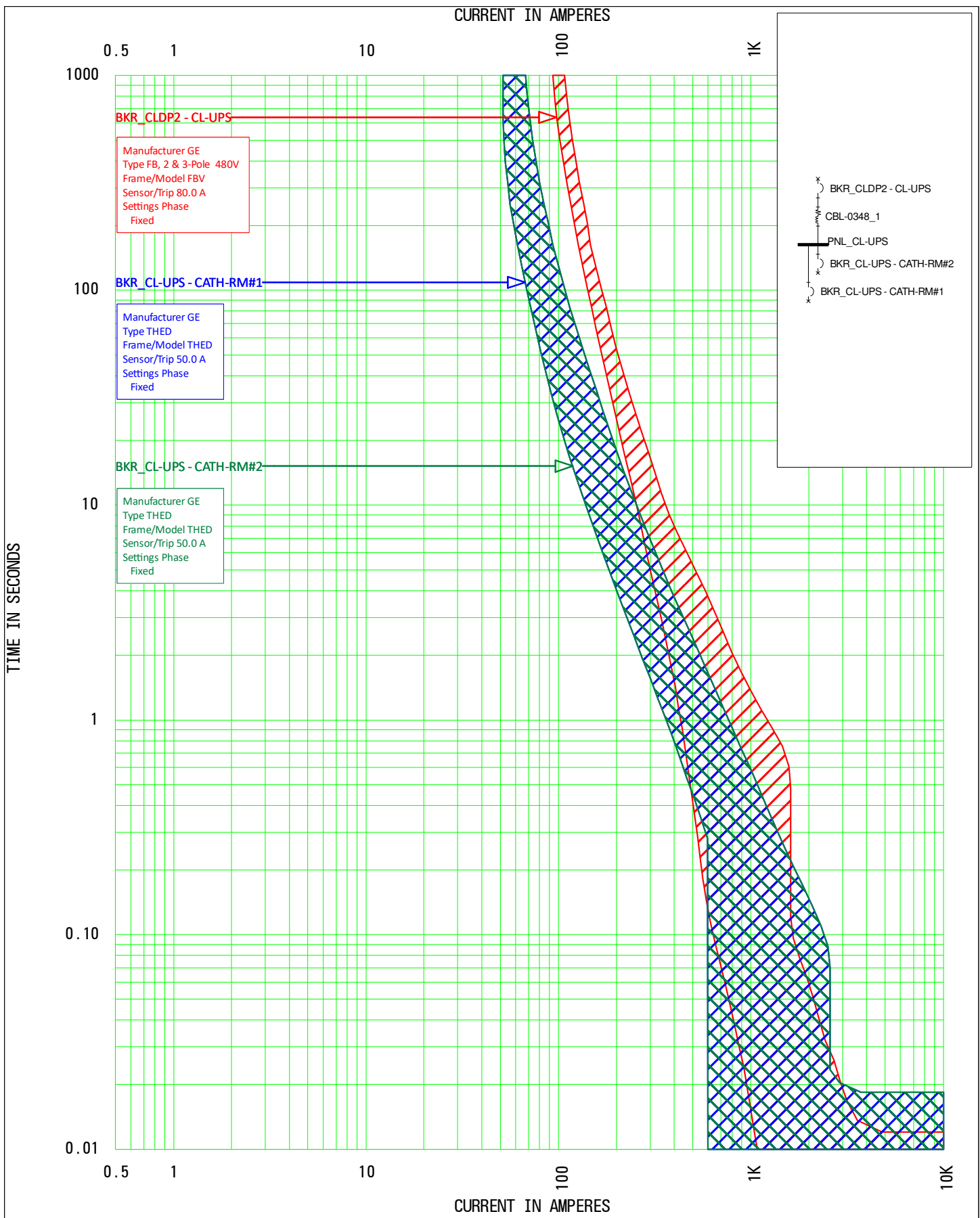**CURRENT IN AMPERES** (bottom axis): 0.5, 1, 10, 100, 1K, 10K, 100K

TCC Name: TCC_020_PNL_DPN
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_SERVICE #2 - CATHLAB/GEAR3 - Phase

RLY_SERVICE #2 - CATHLAB/GEAR3 - Phase

TX_CATH LAB

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 0.7 (210A)
  I2T 15
  SDPU 5 (1500A)
  SDT 0.15 (sec)
  INST 12.5 (3750A)

TX_CATH LAB

1500.0 kVA
Z=4.8000 %
Pri FLA 208.2 A

BKR_CATH LAB/GEAR 3 - MAIN - Phase

Manufacturer GE
Type SS, SH PowerBreak II, MVT Plus/PM
Frame/Model SS
Sensor/Trip 2000.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 0.9 (1800A)
  LTD (1-4) 2
  STPU (1.5-9 x LTPU) 7 (12600A)
  STD (Min-Max) Int (I^s T Off)
  INST (1.5-15 x P) 8 (16000A)

TX Inrush

TIME IN SECONDS

RLY_SERVICE #2 - CATHLAB/GEAR3
BKR_SERVICE #2 - CATHLAB/GEAR 3
CBL-0015
TX_CATH LAB
BKR_CATH LAB/GEAR 3 - MAN

CURRENT IN AMPERES

TCC Name: TCC_021_TX_CATH LAB
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
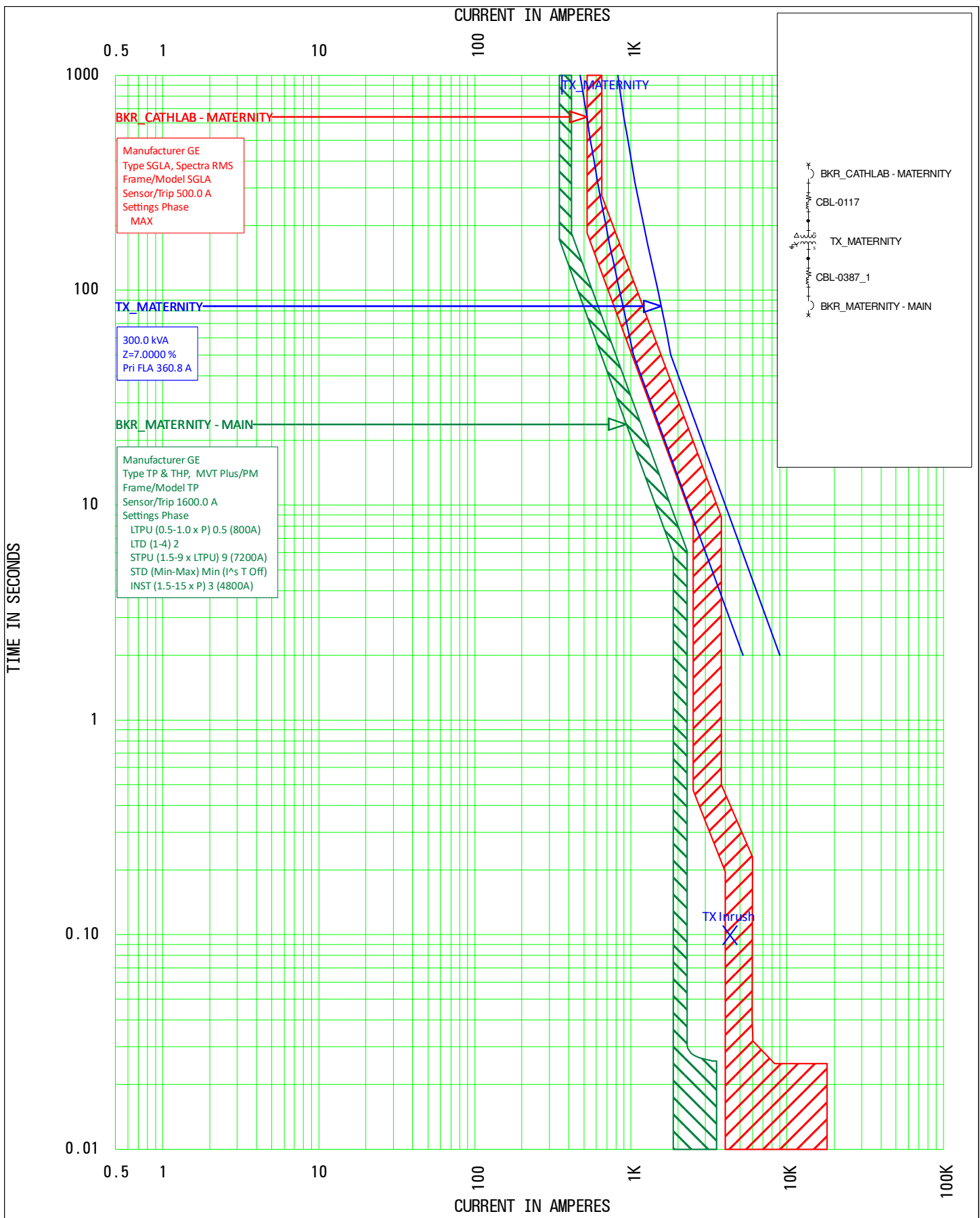Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_CATH LAB/GEAR 3 - MAIN - Phase

Manufacturer GE
Type SS, SH PowerBreak II, MVT Plus/PM
Frame/Model SS
Sensor/Trip 2000.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 0.9 (1800A)
  LTD (1-4) 2
  STPU (1.5-9 x LTPU) 7 (12600A)
  STD (Min-Max) Int (I^s T Off)
  INST (1.5-15 x P) 8 (16000A)

BKR_CATHLAB - O.R CHILLER - Phase

Manufacturer GE
Type SKLB, MVT+PM
Frame/Model 800
Sensor/Trip 700.0 A
Settings Phase
  LTPU 1.0 (700A)
  LTD 2
  STPU 6.0 (4200A)
  STD-I2T 2 (I^s T Off)
  INST 7 (4900A)

BKR_CATHLAB - DPE-DPN2

Manufacturer GE
Type SGLA, Spectra RMS
Frame/Model SGLA
Sensor/Trip 600.0 A
Settings Phase
  MAX

BKR_CATHLAB - X-RAY GEAR 2

Manufacturer GE
Type SKLA, Spectra RMS
Frame/Model SKLA
Sensor/Trip 800.0 A
Settings Phase
  MAX

TIME IN SECONDS

CURRENT IN AMPERES

- BKR_CATH LAB/GEAR 3 - MAIN
- PNL_CATH LAB/GEAR 3
- BKR_CATHLAB - X-RAY GEAR 2
- BKR_CATHLAB - DPE-DPN2
- BKR_CATHLAB - O.R CHILLER

TCC Name: TCC_022_PNL_CATH LAB/GEAR 3
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus
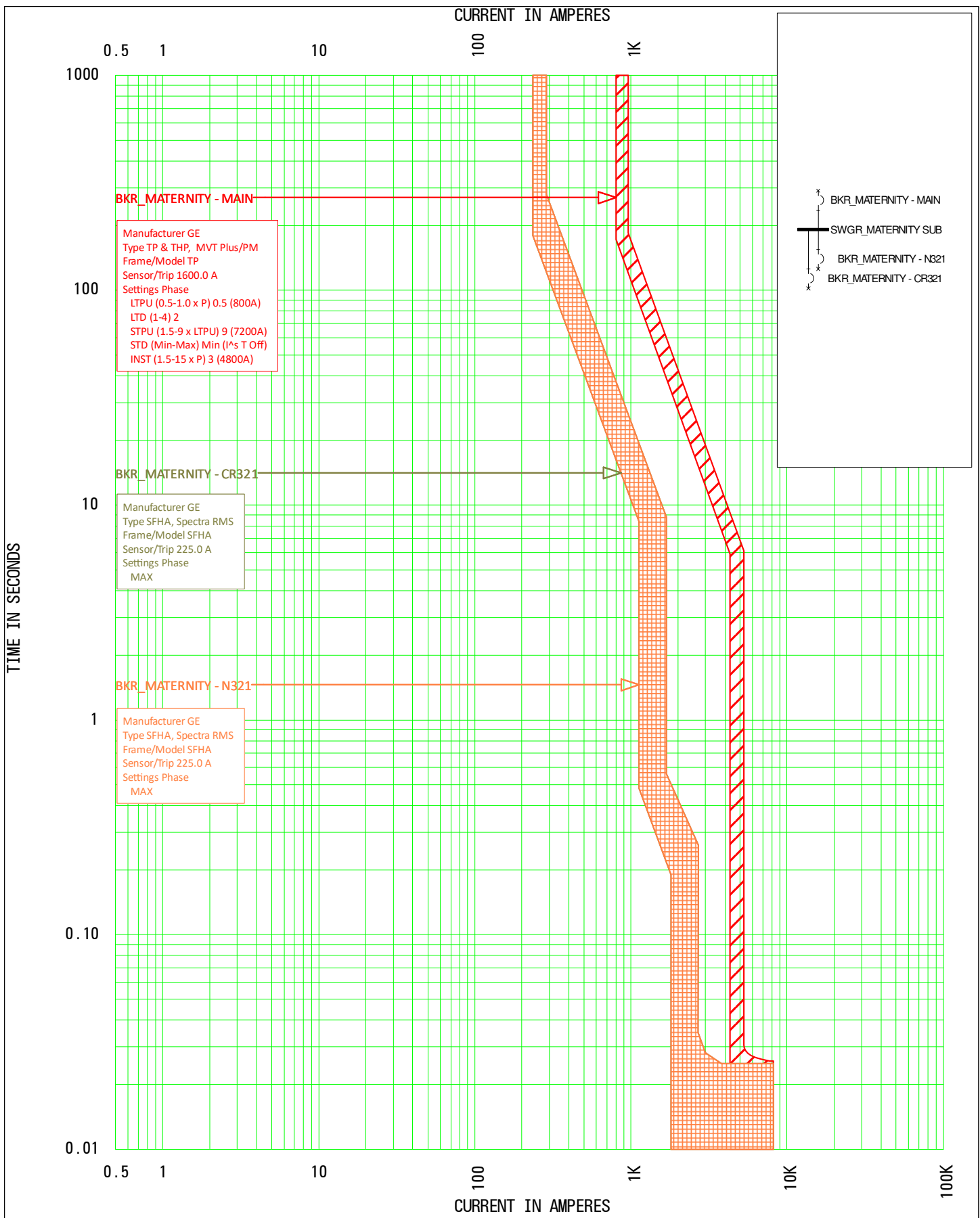
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_CATHLAB - CLDP2 - Phase

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGLB
Sensor/Trip 400.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 1 (400A)
  LTD (1-3) 2
  STPU (1.5 -9 x LTPU) 8 (3200A)
  STD (1-4) 2 (I^s T Off)
  INST (1.5-10 x P) 7.5 (3000A)

BKR_CLDP2 - MAIN

Manufacturer GE
Type SGHA, Spectra RMS
Frame/Model SGHA
Sensor/Trip 400.0 A
Settings Phase
  MAX

BKR_CLDP2 - CATHLAB#2

Manufacturer GE
Type THED
Frame/Model THED
Sensor/Trip 125.0 A
Settings Phase
  Fixed

BKR_CLDP2 - CATHLAB#1

Manufacturer GE
Type THED
Frame/Model THED
Sensor/Trip 125.0 A
Settings Phase
  Fixed

BKR_CLDP2 - CATHLAB#3

Manufacturer GE
Type THED
Frame/Model THED
Sensor/Trip 125.0 A
Settings Phase
  Fixed

Single-line diagram labels:
- BKR_CATHLAB - CLDP2
- CBL-0346_1
- BKR_CLDP2 - MAIN
- PNL_CLDP2
- BKR_CLDP2 - CATHLAB#3
- BKR_CLDP2 - CATHLAB#1
- BKR_CLDP2 - CATHLAB#2

TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_023_PNL_CLDP2
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

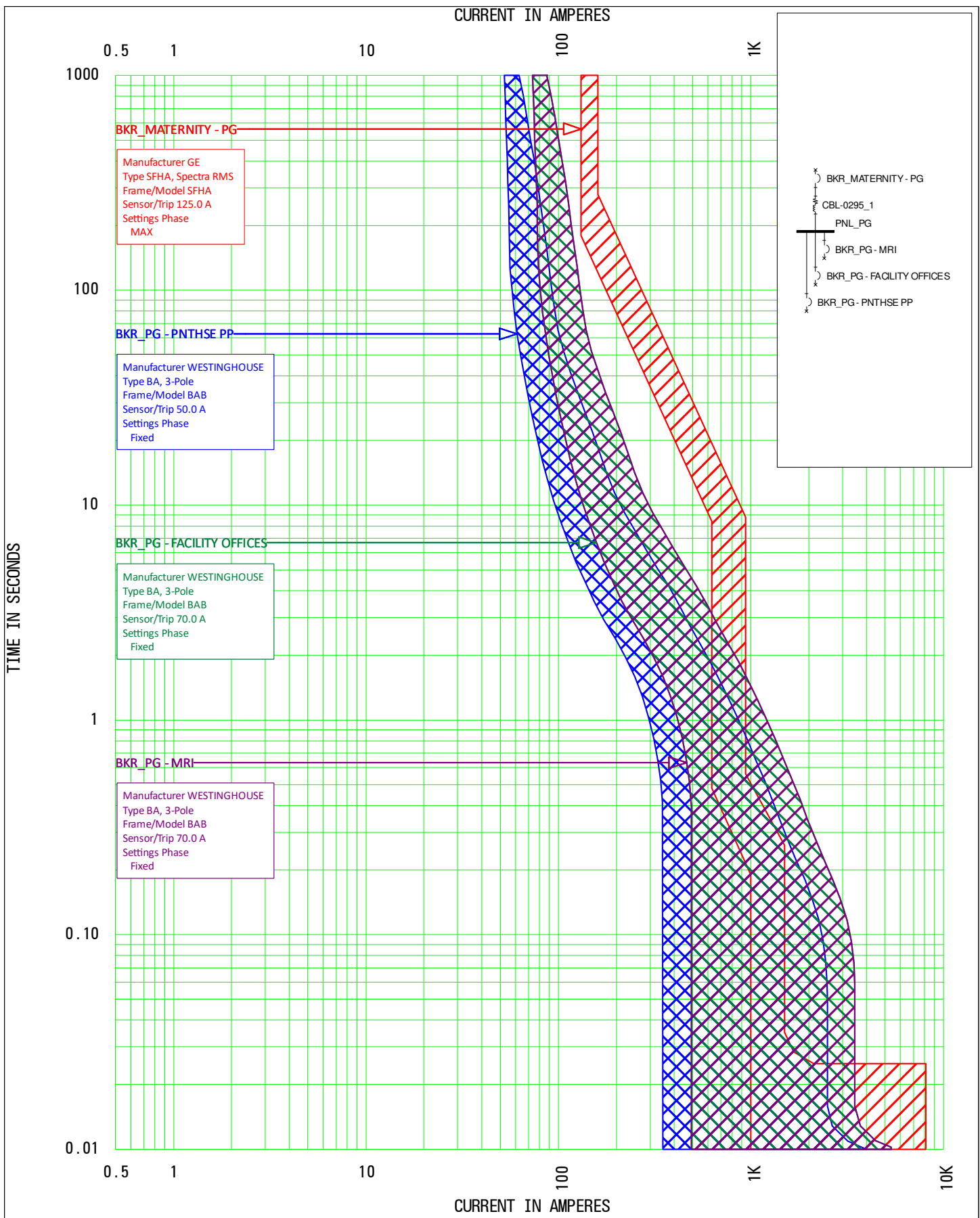CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_CLDP2 - CL-UPS

Manufacturer GE
Type FB, 2 & 3-Pole 480V
Frame/Model FBV
Sensor/Trip 80.0 A
Settings Phase
    Fixed

BKR_CL-UPS - CATH-RM#1

Manufacturer GE
Type THED
Frame/Model THED
Sensor/Trip 50.0 A
Settings Phase
    Fixed

BKR_CL-UPS - CATH-RM#2

Manufacturer GE
Type THED
Frame/Model THED
Sensor/Trip 50.0 A
Settings Phase
    Fixed

TIME IN SECONDS

CURRENT IN AMPERES

BKR_CLDP2 - CL-UPS
CBL-0348_1
PNL_CL-UPS
BKR_CL-UPS - CATH-RM#2
BKR_CL-UPS - CATH-RM#1

TCC Name: TCC_024_PNL_CL-UPS
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

TIME IN SECONDS

BKR_CATHLAB - MATERNITY

Manufacturer GE
Type SGLA, Spectra RMS
Frame/Model SGLA
Sensor/Trip 500.0 A
Settings Phase
  MAX

TX_MATERNITY

300.0 kVA
Z=7.0000 %
Pri FLA 360.8 A

BKR_MATERNITY - MAIN

Manufacturer GE
Type TP & THP, MVT Plus/PM
Frame/Model TP
Sensor/Trip 1600.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 0.5 (800A)
  LTD (1-4) 2
  STPU (1.5-9 x LTPU) 9 (7200A)
  STD (Min-Max) Min (I^s T Off)
  INST (1.5-15 x P) 3 (4800A)

TX_MATERNITY

TX Inrush

Single-line diagram:
BKR_CATHLAB - MATERNITY
CBL-0117
TX_MATERNITY
CBL-0387_1
BKR_MATERNITY - MAIN

CURRENT IN AMPERES

TCC Name: TCC_025_TX_MATERNITY
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
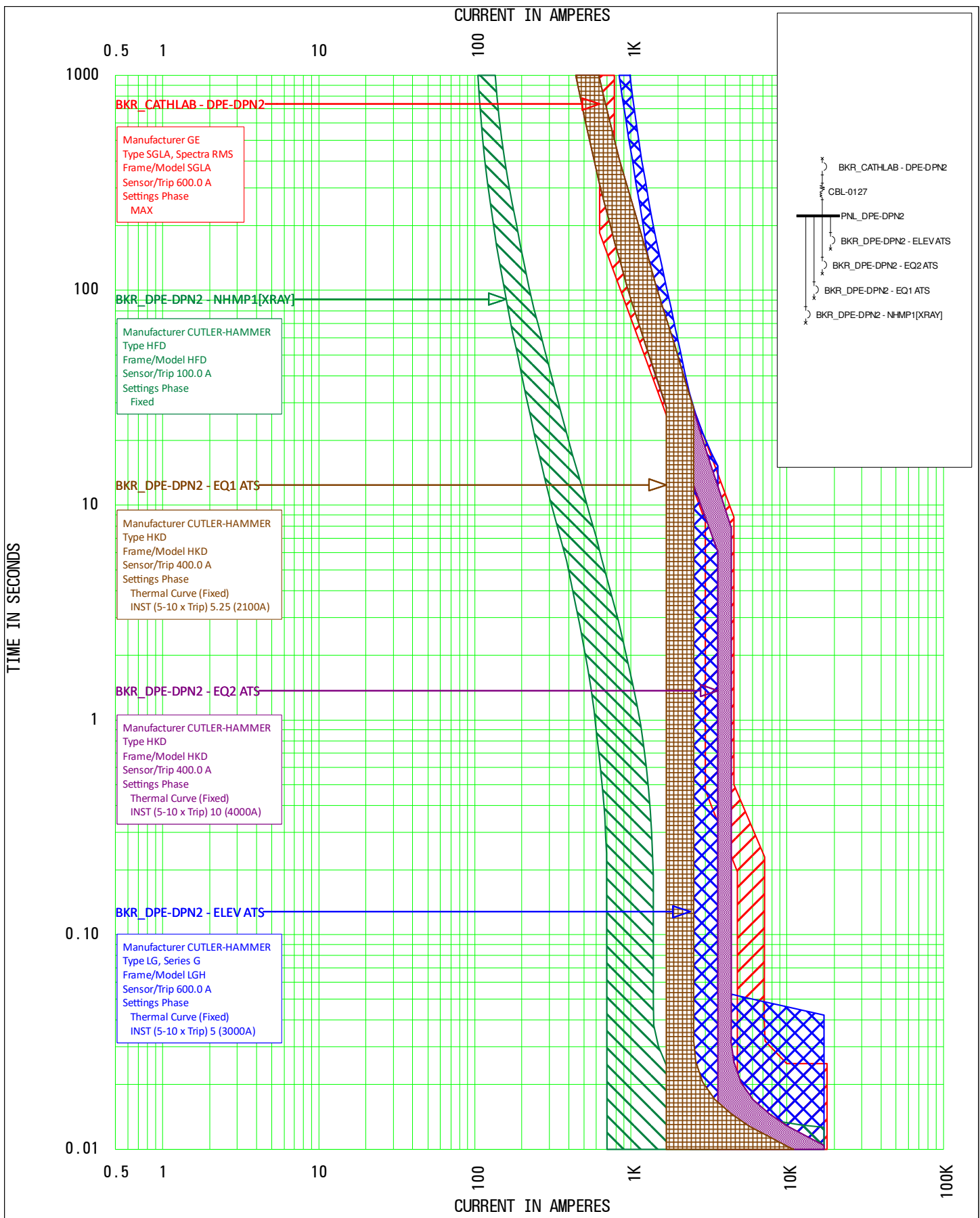Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_MATERNITY - MAIN

Manufacturer GE
Type TP & THP, MVT Plus/PM
Frame/Model TP
Sensor/Trip 1600.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 0.5 (800A)
  LTD (1-4) 2
  STPU (1.5-9 x LTPU) 9 (7200A)
  STD (Min-Max) Min (I^s T Off)
  INST (1.5-15 x P) 3 (4800A)

BKR_MATERNITY - CR321

Manufacturer GE
Type SFHA, Spectra RMS
Frame/Model SFHA
Sensor/Trip 225.0 A
Settings Phase
  MAX

BKR_MATERNITY - N321

Manufacturer GE
Type SFHA, Spectra RMS
Frame/Model SFHA
Sensor/Trip 225.0 A
Settings Phase
  MAX

TIME IN SECONDS

CURRENT IN AMPERES

BKR_MATERNITY - MAIN
SWGR_MATERNITY SUB
BKR_MATERNITY - N321
BKR_MATERNITY - CR321

TCC Name: TCC_026_SWGR_MATERNITY SUB
Project #810133
Recommendation_NEW
Current Scale x 1

Reference Voltage: 208V
Lowell General Hospital
Main Campus

CURRENT IN AMPERES

BKR_MATERNITY - PG

Manufacturer GE
Type SFHA, Spectra RMS
Frame/Model SFHA
Sensor/Trip 125.0 A
Settings Phase
   MAX

BKR_PG - PNTHSE PP

Manufacturer WESTINGHOUSE
Type BA, 3-Pole
Frame/Model BAB
Sensor/Trip 50.0 A
Settings Phase
   Fixed

BKR_PG - FACILITY OFFICES

Manufacturer WESTINGHOUSE
Type BA, 3-Pole
Frame/Model BAB
Sensor/Trip 70.0 A
Settings Phase
   Fixed

BKR_PG - MRI

Manufacturer WESTINGHOUSE
Type BA, 3-Pole
Frame/Model BAB
Sensor/Trip 70.0 A
Settings Phase
   Fixed

TIME IN SECONDS

CURRENT IN AMPERES

BKR_MATERNITY - PG
CBL-0295_1
PNL_PG
BKR_PG - MRI
BKR_PG - FACILITY OFFICES
BKR_PG - PNTHSE PP

TCC Name: TCC_027_PNL_PG
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 208V
Lowell General Hospital
Main Campus

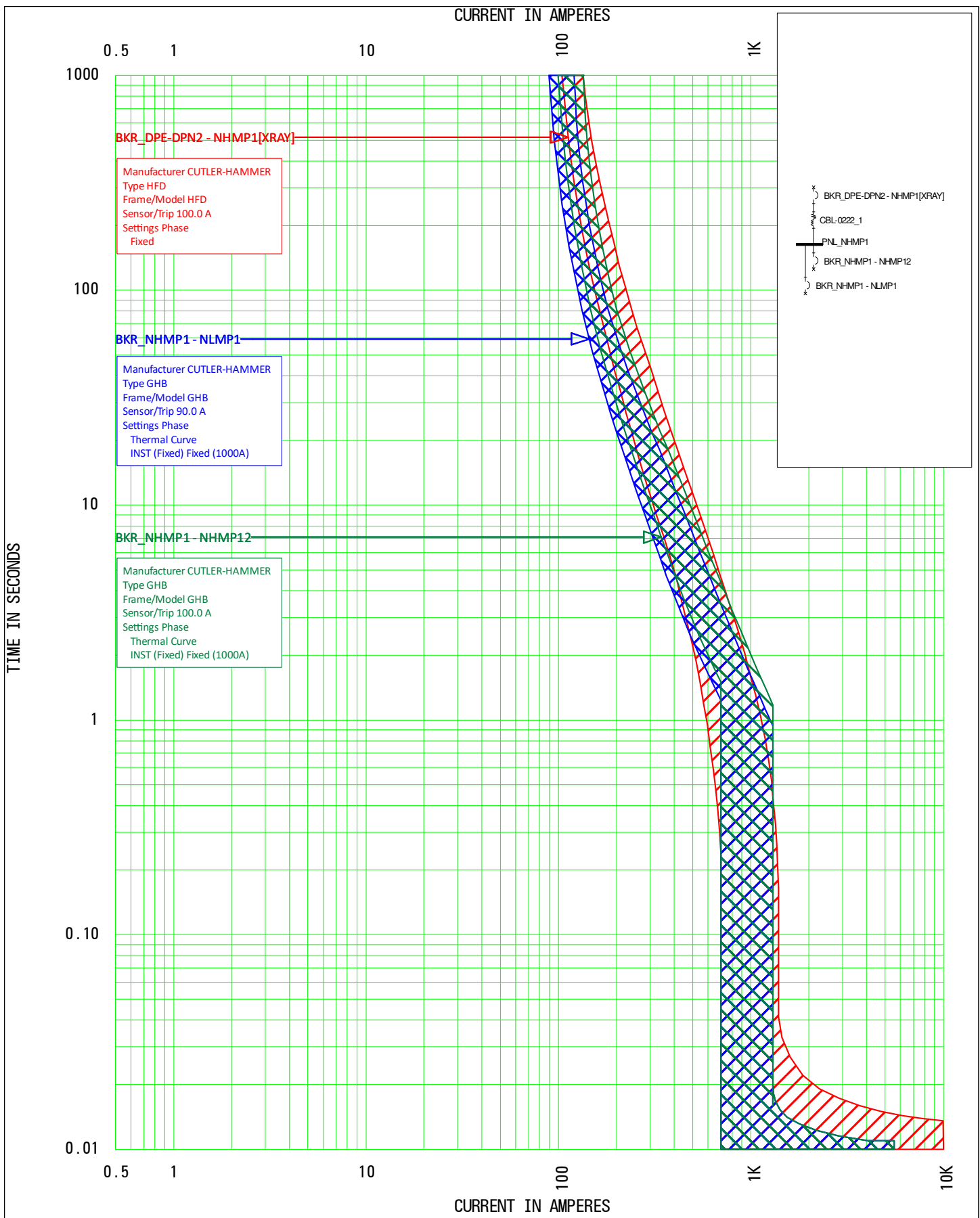CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_CATHLAB - DPE-DPN2

Manufacturer GE
Type SGLA, Spectra RMS
Frame/Model SGLA
Sensor/Trip 600.0 A
Settings Phase
   MAX

BKR_DPE-DPN2 - NHMP1[XRAY]

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 100.0 A
Settings Phase
   Fixed

BKR_DPE-DPN2 - EQ1 ATS

Manufacturer CUTLER-HAMMER
Type HKD
Frame/Model HKD
Sensor/Trip 400.0 A
Settings Phase
   Thermal Curve (Fixed)
   INST (5-10 x Trip) 5.25 (2100A)

BKR_DPE-DPN2 - EQ2 ATS

Manufacturer CUTLER-HAMMER
Type HKD
Frame/Model HKD
Sensor/Trip 400.0 A
Settings Phase
   Thermal Curve (Fixed)
   INST (5-10 x Trip) 10 (4000A)

BKR_DPE-DPN2 - ELEV ATS

Manufacturer CUTLER-HAMMER
Type LG, Series G
Frame/Model LGH
Sensor/Trip 600.0 A
Settings Phase
   Thermal Curve (Fixed)
   INST (5-10 x Trip) 5 (3000A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_CATHLAB - DPE-DPN2
CBL-0127
PNL_DPE-DPN2
BKR_DPE-DPN2 - ELEV ATS
BKR_DPE-DPN2 - EQ2 ATS
BKR_DPE-DPN2 - EQ1 ATS
BKR_DPE-DPN2 - NHMP1[XRAY]

TCC Name: TCC_028_PNL_DPE-DPN2
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
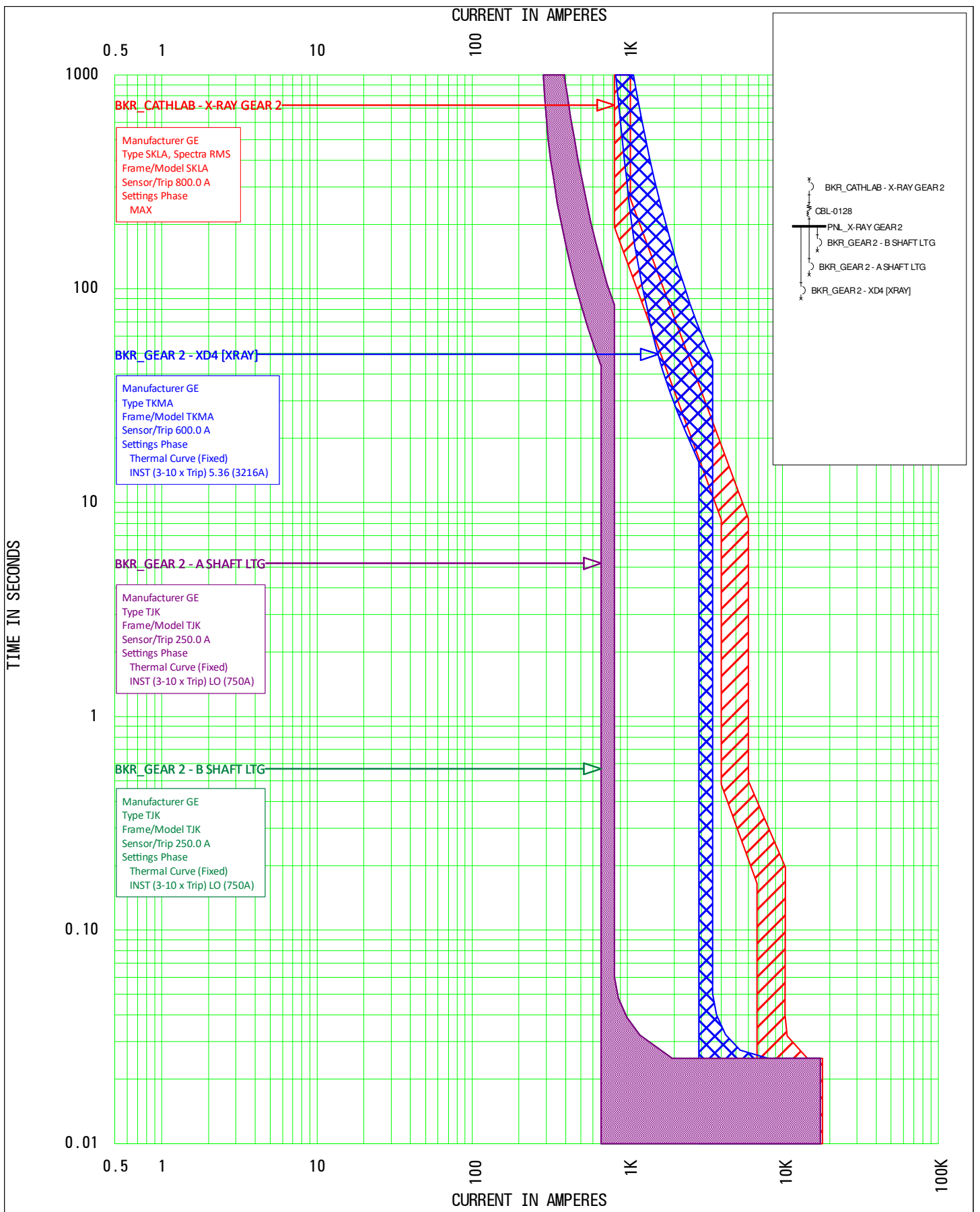Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPE-DPN2 - NHMP1[XRAY]

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 100.0 A
Settings Phase
    Fixed

BKR_NHMP1 - NLMP1

Manufacturer CUTLER-HAMMER
Type GHB
Frame/Model GHB
Sensor/Trip 90.0 A
Settings Phase
    Thermal Curve
    INST (Fixed) Fixed (1000A)

BKR_NHMP1 - NHMP12

Manufacturer CUTLER-HAMMER
Type GHB
Frame/Model GHB
Sensor/Trip 100.0 A
Settings Phase
    Thermal Curve
    INST (Fixed) Fixed (1000A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_DPE-DPN2 - NHMP1[XRAY]

CBL-0222_1

PNL_NHMP1

BKR_NHMP1 - NHMP12

BKR_NHMP1 - NLMP1

TCC Name: TCC_029_PNL_NHMP1
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

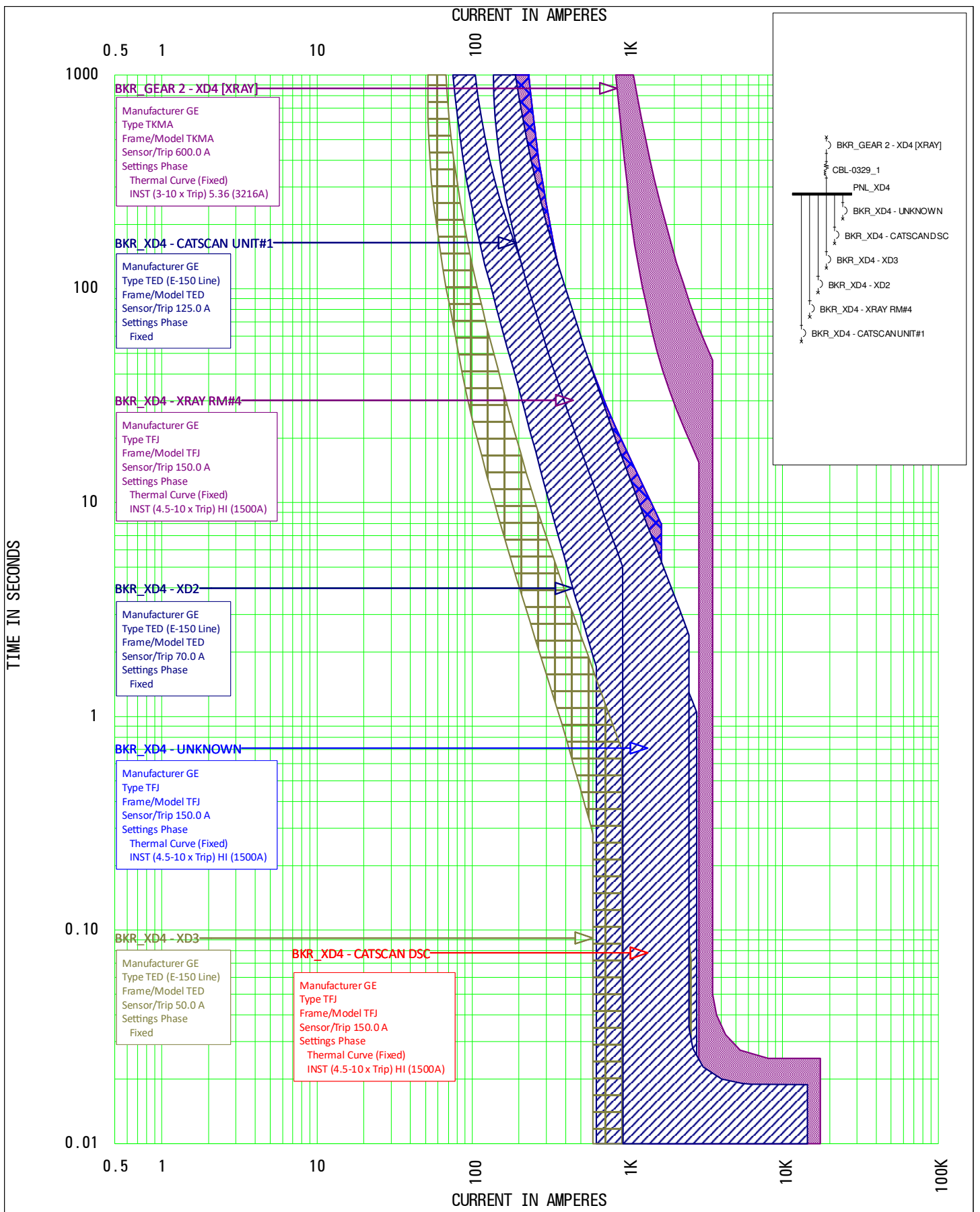CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_CATHLAB - X-RAY GEAR 2

Manufacturer GE
Type SKLA, Spectra RMS
Frame/Model SKLA
Sensor/Trip 800.0 A
Settings Phase
  MAX

BKR_GEAR 2 - XD4 [XRAY]

Manufacturer GE
Type TKMA
Frame/Model TKMA
Sensor/Trip 600.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (3-10 x Trip) 5.36 (3216A)

BKR_GEAR 2 - A SHAFT LTG

Manufacturer GE
Type TJK
Frame/Model TJK
Sensor/Trip 250.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (3-10 x Trip) LO (750A)

BKR_GEAR 2 - B SHAFT LTG

Manufacturer GE
Type TJK
Frame/Model TJK
Sensor/Trip 250.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (3-10 x Trip) LO (750A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_CATHLAB - X-RAY GEAR 2
CBL-0128
PNL_X-RAY GEAR 2
BKR_GEAR 2 - B SHAFT LTG
BKR_GEAR 2 - A SHAFT LTG
BKR_GEAR 2 - XD4 [XRAY]

TCC Name: TCC_030_PNL_X-RAY GEAR 2
Project #810133
Recommendation_NEW
Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus
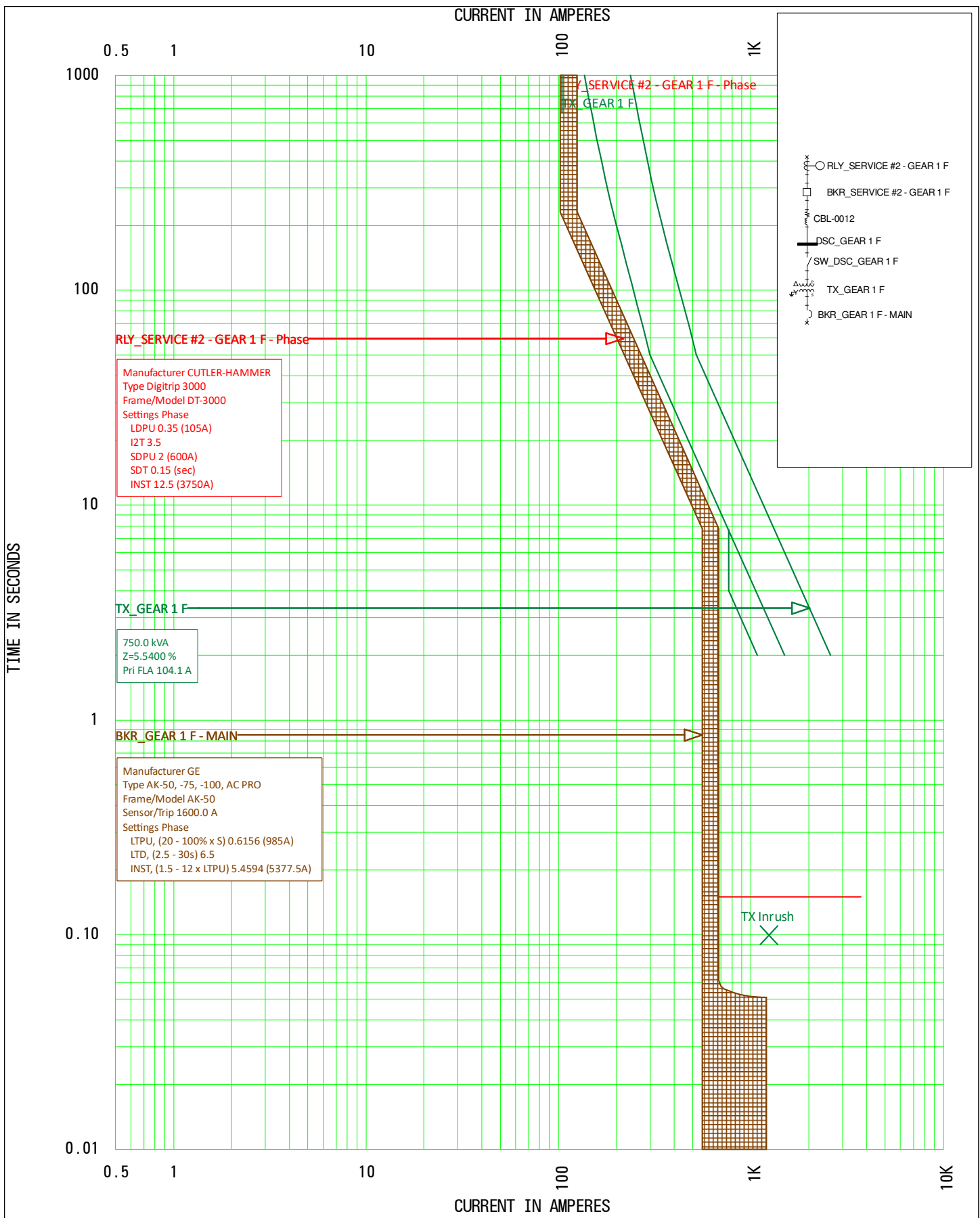
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_GEAR 2 - XD4 [XRAY]

Manufacturer GE
Type TKMA
Frame/Model TKMA
Sensor/Trip 600.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (3-10 x Trip) 5.36 (3216A)

BKR_XD4 - CATSCAN UNIT#1

Manufacturer GE
Type TED (E-150 Line)
Frame/Model TED
Sensor/Trip 125.0 A
Settings Phase
  Fixed

BKR_XD4 - XRAY RM#4

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 150.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (4.5-10 x Trip) HI (1500A)

BKR_XD4 - XD2

Manufacturer GE
Type TED (E-150 Line)
Frame/Model TED
Sensor/Trip 70.0 A
Settings Phase
  Fixed

BKR_XD4 - UNKNOWN

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 150.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (4.5-10 x Trip) HI (1500A)

BKR_XD4 - XD3

Manufacturer GE
Type TED (E-150 Line)
Frame/Model TED
Sensor/Trip 50.0 A
Settings Phase
  Fixed

BKR_XD4 - CATSCAN DSC

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 150.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (4.5-10 x Trip) HI (1500A)

TIME IN SECONDS

CURRENT IN AMPERES

Single-line diagram:
- BKR_GEAR 2 - XD4 [XRAY]
- CBL-0329_1
- PNL_XD4
  - BKR_XD4 - UNKNOWN
  - BKR_XD4 - CATSCAN DSC
  - BKR_XD4 - XD3
  - BKR_XD4 - XD2
  - BKR_XD4 - XRAY RM#4
  - BKR_XD4 - CATSCAN UNIT#1

TCC Name: TCC_031_PNL_XD4
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
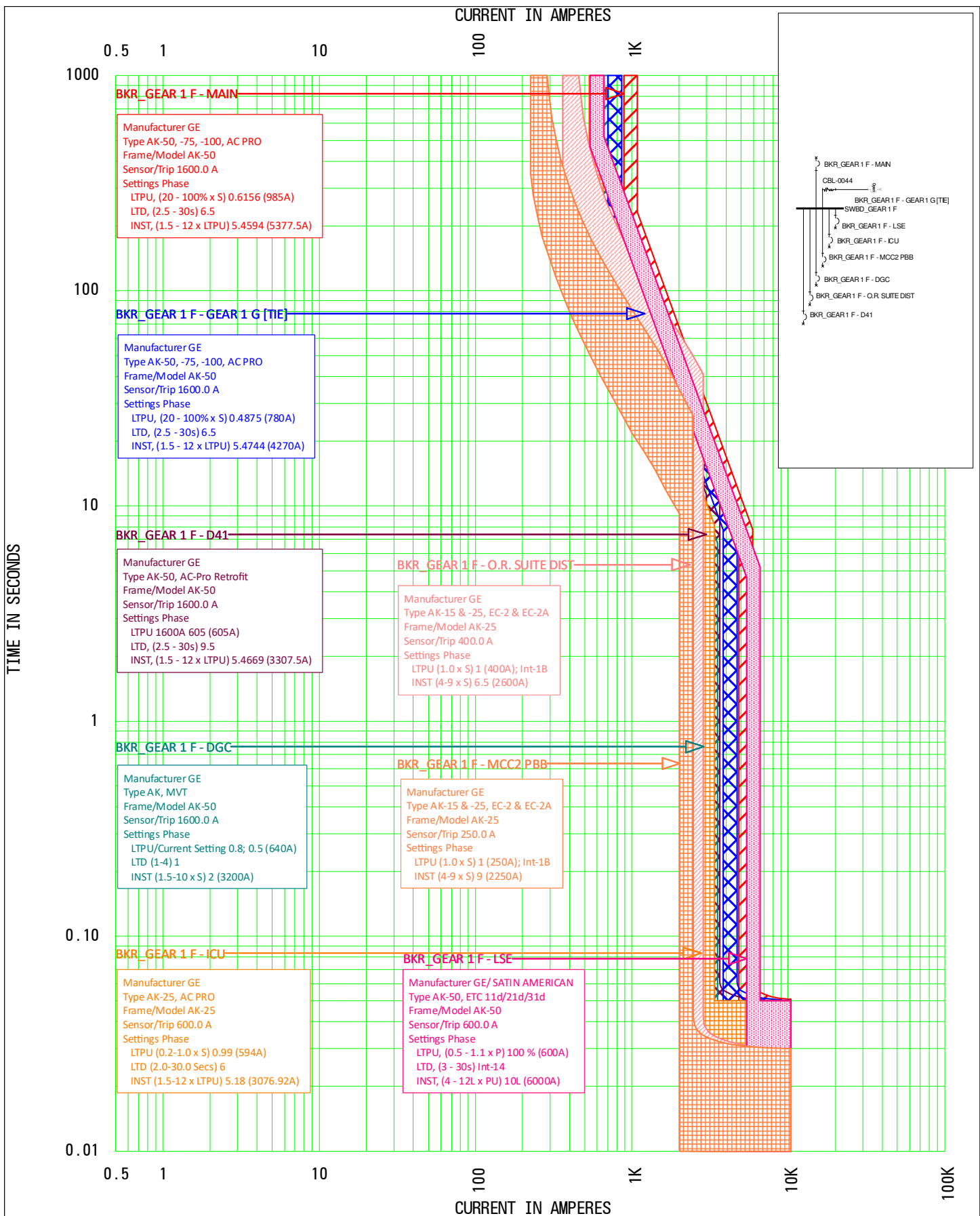Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

CURRENT IN AMPERES

TIME IN SECONDS

RLY_SERVICE #2 - GEAR 1 F - Phase
TX_GEAR 1 F

RLY_SERVICE #2 - GEAR 1 F - Phase
- Manufacturer CUTLER-HAMMER
- Type Digitrip 3000
- Frame/Model DT-3000
- Settings Phase
  - LDPU 0.35 (105A)
  - I2T 3.5
  - SDPU 2 (600A)
  - SDT 0.15 (sec)
  - INST 12.5 (3750A)

TX_GEAR 1 F
- 750.0 kVA
- Z=5.5400 %
- Pri FLA 104.1 A

BKR_GEAR 1 F - MAIN
- Manufacturer GE
- Type AK-50, -75, -100, AC PRO
- Frame/Model AK-50
- Sensor/Trip 1600.0 A
- Settings Phase
  - LTPU, (20 - 100% x S) 0.6156 (985A)
  - LTD, (2.5 - 30s) 6.5
  - INST, (1.5 - 12 x LTPU) 5.4594 (5377.5A)

TX Inrush

Legend:
- RLY_SERVICE #2 - GEAR 1 F
- BKR_SERVICE #2 - GEAR 1 F
- CBL-0012
- DSC_GEAR 1 F
- SW_DSC_GEAR 1 F
- TX_GEAR 1 F
- BKR_GEAR 1 F - MAIN

TCC Name: TCC_032_TX_GEAR 1 F
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
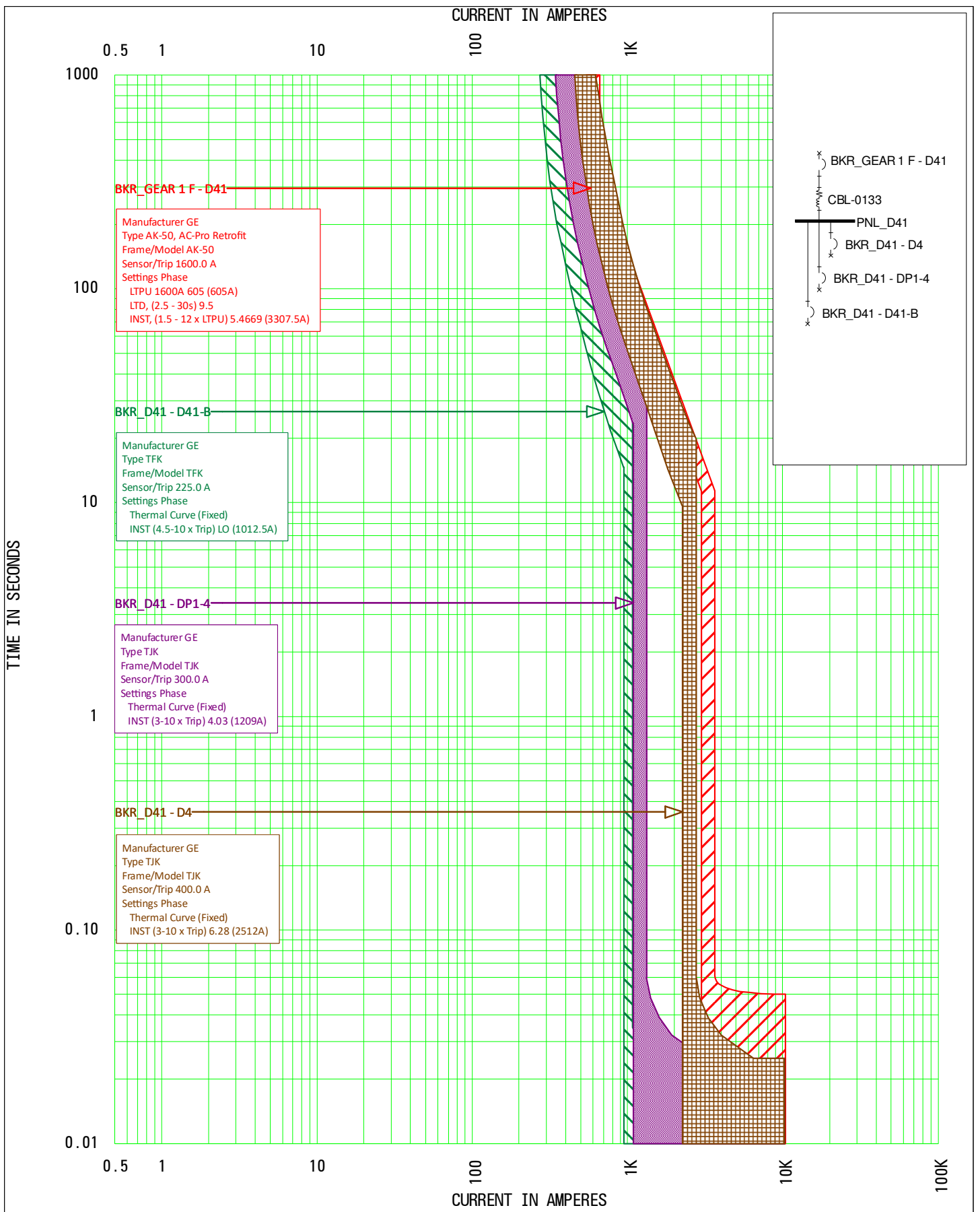Main Campus
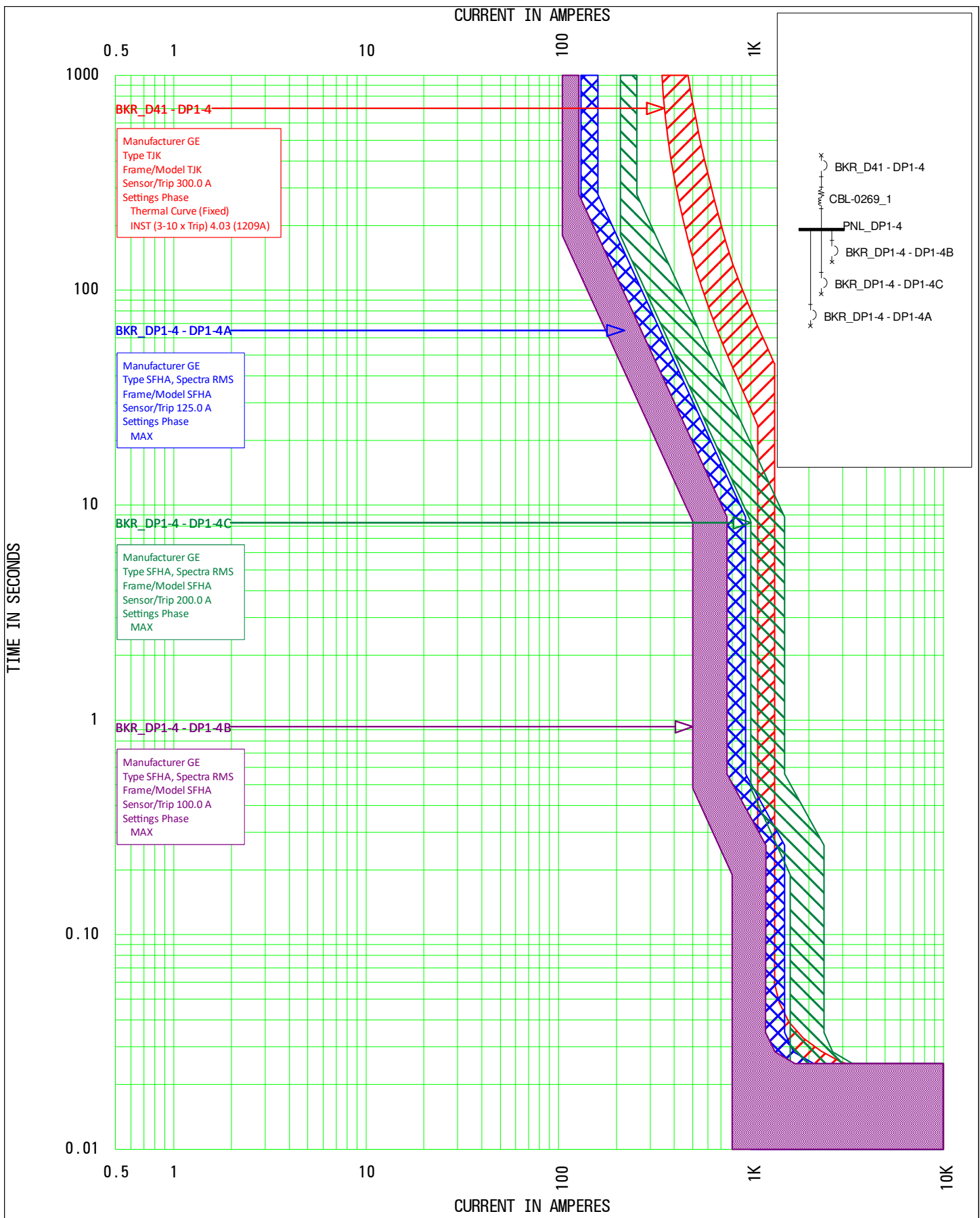
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

TIME IN SECONDS

BKR_GEAR 1 F - MAIN

Manufacturer GE
Type AK-50, -75, -100, AC PRO
Frame/Model AK-50
Sensor/Trip 1600.0 A
Settings Phase
  LTPU, (20 - 100% x S) 0.6156 (985A)
  LTD, (2.5 - 30s) 6.5
  INST, (1.5 - 12 x LTPU) 5.4594 (5377.5A)

BKR_GEAR 1 F - GEAR 1 G [TIE]

Manufacturer GE
Type AK-50, -75, -100, AC PRO
Frame/Model AK-50
Sensor/Trip 1600.0 A
Settings Phase
  LTPU, (20 - 100% x S) 0.4875 (780A)
  LTD, (2.5 - 30s) 6.5
  INST, (1.5 - 12 x LTPU) 5.4744 (4270A)

BKR_GEAR 1 F - D41

Manufacturer GE
Type AK-50, AC-Pro Retrofit
Frame/Model AK-50
Sensor/Trip 1600.0 A
Settings Phase
  LTPU 1600A 605 (605A)
  LTD, (2.5 - 30s) 9.5
  INST, (1.5 - 12 x LTPU) 5.4669 (3307.5A)

BKR_GEAR 1 F - O.R. SUITE DIST

Manufacturer GE
Type AK-15 & -25, EC-2 & EC-2A
Frame/Model AK-25
Sensor/Trip 400.0 A
Settings Phase
  LTPU (1.0 x S) 1 (400A); Int-1B
  INST (4-9 x S) 6.5 (2600A)

BKR_GEAR 1 F - DGC

Manufacturer GE
Type AK, MVT
Frame/Model AK-50
Sensor/Trip 1600.0 A
Settings Phase
  LTPU/Current Setting 0.8; 0.5 (640A)
  LTD (1-4) 1
  INST (1.5-10 x S) 2 (3200A)

BKR_GEAR 1 F - MCC2 PBB

Manufacturer GE
Type AK-15 & -25, EC-2 & EC-2A
Frame/Model AK-25
Sensor/Trip 250.0 A
Settings Phase
  LTPU (1.0 x S) 1 (250A); Int-1B
  INST (4-9 x S) 9 (2250A)

BKR_GEAR 1 F - ICU

Manufacturer GE
Type AK-25, AC PRO
Frame/Model AK-25
Sensor/Trip 600.0 A
Settings Phase
  LTPU (0.2-1.0 x S) 0.99 (594A)
  LTD (2.0-30.0 Secs) 6
  INST (1.5-12 x LTPU) 5.18 (3076.92A)

BKR_GEAR 1 F - LSE

Manufacturer GE/ SATIN AMERICAN
Type AK-50, ETC 11d/21d/31d
Frame/Model AK-50
Sensor/Trip 600.0 A
Settings Phase
  LTPU, (0.5 - 1.1 x P) 100 % (600A)
  LTD, (3 - 30s) Int-14
  INST, (4 - 12L x PU) 10L (6000A)

One-line diagram

BKR_GEAR 1 F - MAIN
CBL-0044
BKR_GEAR 1 F - GEAR 1 G [TIE]
SWBD_GEAR 1 F
BKR_GEAR 1 F - LSE
BKR_GEAR 1 F - ICU
BKR_GEAR 1 F - MCC2 PBB
BKR_GEAR 1 F - DGC
BKR_GEAR 1 F - O.R. SUITE DIST
BKR_GEAR 1 F - D41

CURRENT IN AMPERES

CURRENT IN AMPERES

BKR_GEAR 1 F - D41

Manufacturer GE
Type AK-50, AC-Pro Retrofit
Frame/Model AK-50
Sensor/Trip 1600.0 A
Settings Phase
  LTPU 1600A 605 (605A)
  LTD, (2.5 - 30s) 9.5
  INST, (1.5 - 12 x LTPU) 5.4669 (3307.5A)

BKR_D41 - D41-B

Manufacturer GE
Type TFK
Frame/Model TFK
Sensor/Trip 225.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (4.5-10 x Trip) LO (1012.5A)

BKR_D41 - DP1-4

Manufacturer GE
Type TJK
Frame/Model TJK
Sensor/Trip 300.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (3-10 x Trip) 4.03 (1209A)

BKR_D41 - D4

Manufacturer GE
Type TJK
Frame/Model TJK
Sensor/Trip 400.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (3-10 x Trip) 6.28 (2512A)

TIME IN SECONDS

CURRENT IN AMPERES

- BKR_GEAR 1 F - D41
- CBL-0133
- PNL_D41
- BKR_D41 - D4
- BKR_D41 - DP1-4
- BKR_D41 - D41-B

TCC Name: TCC_034_PNL_D41
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
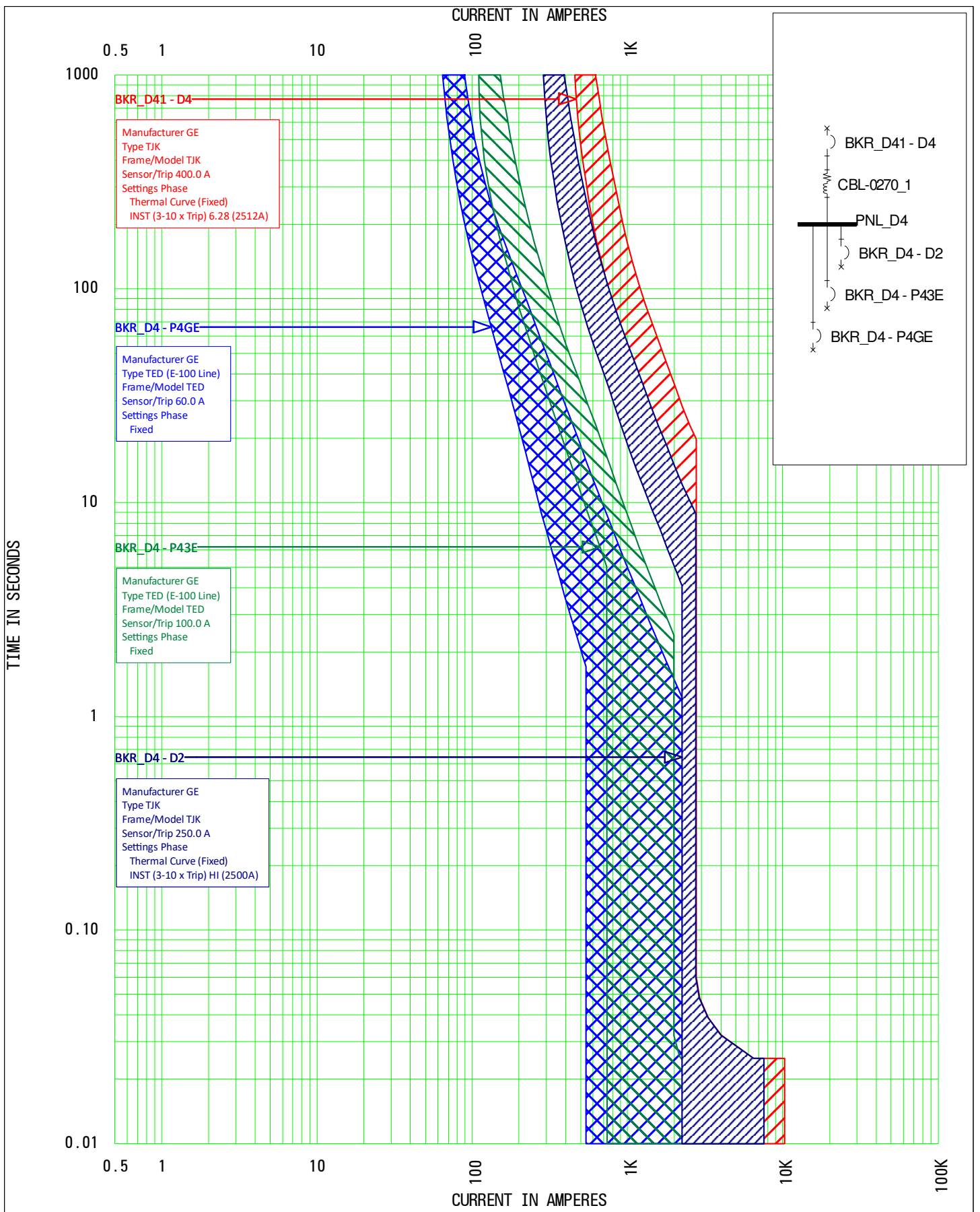Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_D41 - DP1-4

Manufacturer GE
Type TJK
Frame/Model TJK
Sensor/Trip 300.0 A
Settings Phase
   Thermal Curve (Fixed)
   INST (3-10 x Trip) 4.03 (1209A)

BKR_DP1-4 - DP1-4A

Manufacturer GE
Type SFHA, Spectra RMS
Frame/Model SFHA
Sensor/Trip 125.0 A
Settings Phase
   MAX

BKR_DP1-4 - DP1-4C

Manufacturer GE
Type SFHA, Spectra RMS
Frame/Model SFHA
Sensor/Trip 200.0 A
Settings Phase
   MAX

BKR_DP1-4 - DP1-4B

Manufacturer GE
Type SFHA, Spectra RMS
Frame/Model SFHA
Sensor/Trip 100.0 A
Settings Phase
   MAX

TIME IN SECONDS

CURRENT IN AMPERES

BKR_D41 - DP1-4
CBL-0269_1
PNL_DP1-4
BKR_DP1-4 - DP1-4B
BKR_DP1-4 - DP1-4C
BKR_DP1-4 - DP1-4A

TCC Name: TCC_035_PNL_DP1-4
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
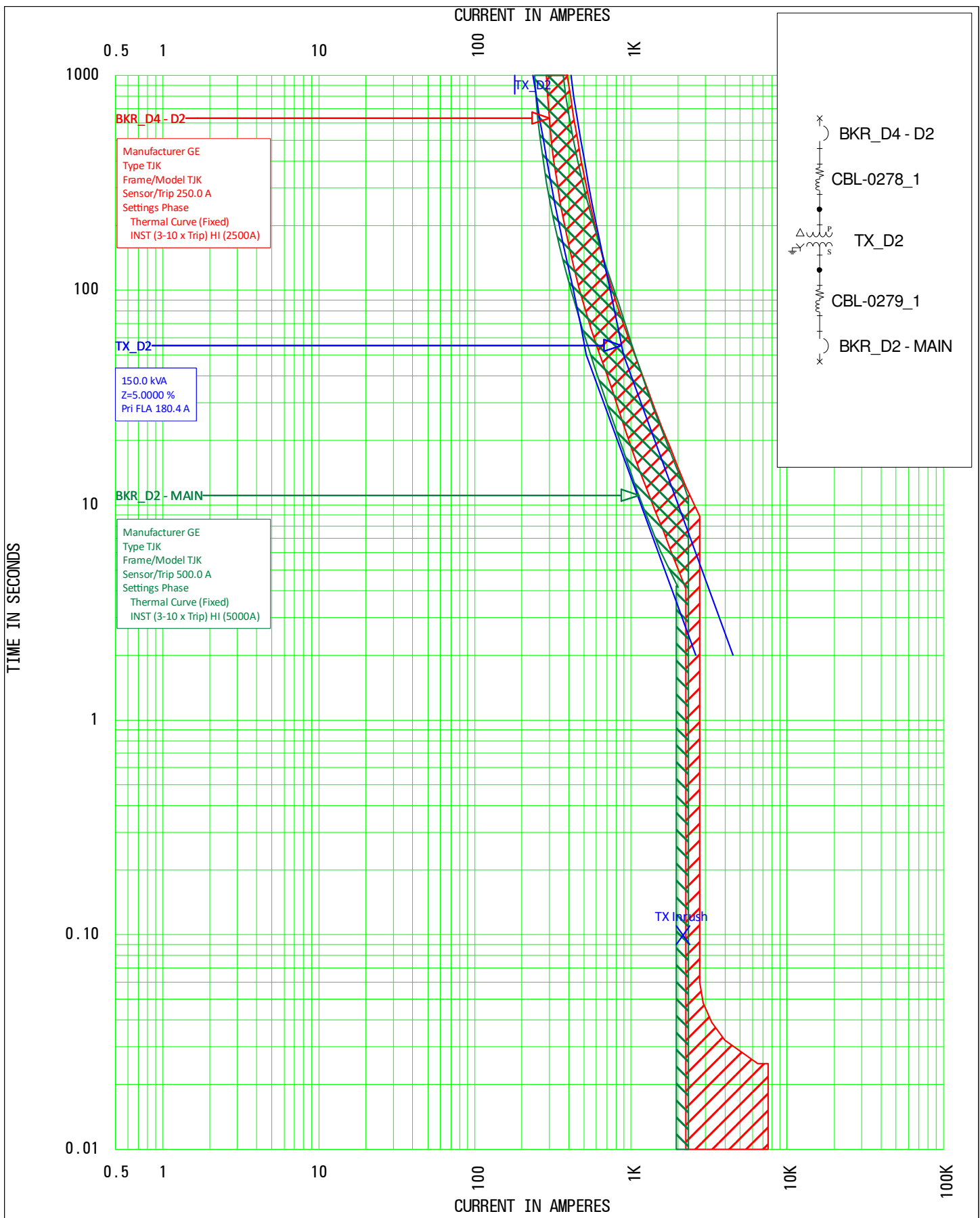POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_D41 - D4

Manufacturer GE
Type TJK
Frame/Model TJK
Sensor/Trip 400.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (3-10 x Trip) 6.28 (2512A)

BKR_D4 - P4GE

Manufacturer GE
Type TED (E-100 Line)
Frame/Model TED
Sensor/Trip 60.0 A
Settings Phase
  Fixed

BKR_D4 - P43E

Manufacturer GE
Type TED (E-100 Line)
Frame/Model TED
Sensor/Trip 100.0 A
Settings Phase
  Fixed

BKR_D4 - D2

Manufacturer GE
Type TJK
Frame/Model TJK
Sensor/Trip 250.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (3-10 x Trip) HI (2500A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_D41 - D4

CBL-0270_1

PNL_D4

BKR_D4 - D2

BKR_D4 - P43E

BKR_D4 - P4GE

TCC Name: TCC_036_PNL_D4
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_D4 - D2

Manufacturer GE
Type TJK
Frame/Model TJK
Sensor/Trip 250.0 A
Settings Phase
   Thermal Curve (Fixed)
   INST (3-10 x Trip) HI (2500A)

TX_D2

150.0 kVA
Z=5.0000 %
Pri FLA 180.4 A

BKR_D2 - MAIN

Manufacturer GE
Type TJK
Frame/Model TJK
Sensor/Trip 500.0 A
Settings Phase
   Thermal Curve (Fixed)
   INST (3-10 x Trip) HI (5000A)

TX Inrush

TIME IN SECONDS

CURRENT IN AMPERES

BKR_D4 - D2

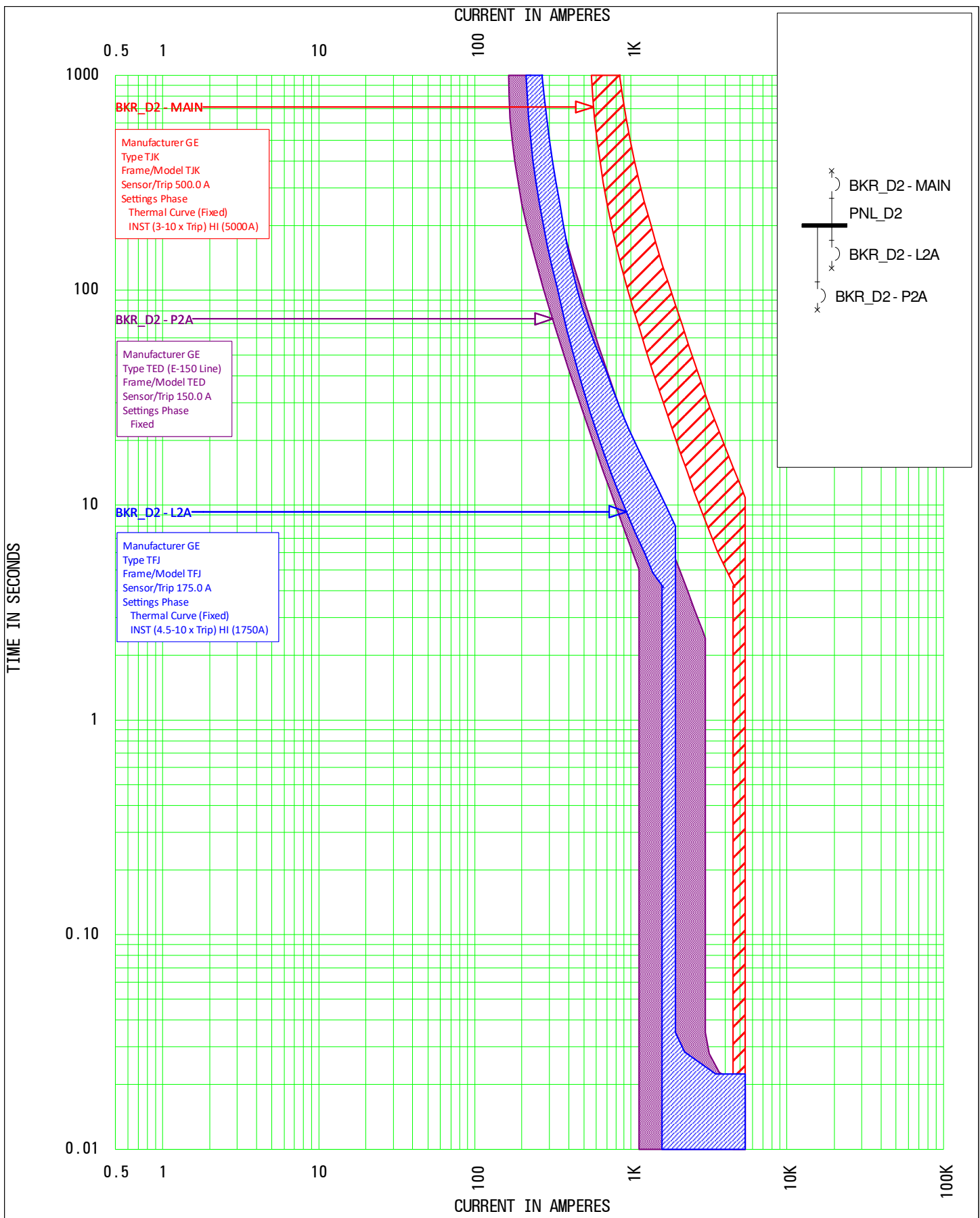CBL-0278_1

TX_D2

CBL-0279_1

BKR_D2 - MAIN

TCC Name: TCC_037_TX_D2
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

CURRENT IN AMPERES (top axis)
0.5   1   10   100   1K

BKR_D2 - MAIN

Manufacturer GE
Type TJK
Frame/Model TJK
Sensor/Trip 500.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (3-10 x Trip) HI (5000A)

BKR_D2 - P2A

Manufacturer GE
Type TED (E-150 Line)
Frame/Model TED
Sensor/Trip 150.0 A
Settings Phase
  Fixed

BKR_D2 - L2A

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 175.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (4.5-10 x Trip) HI (1750A)

TIME IN SECONDS

1000
100
10
1
0.10
0.01

BKR_D2 - MAIN
PNL_D2
BKR_D2 - L2A
BKR_D2 - P2A

CURRENT IN AMPERES (bottom axis)
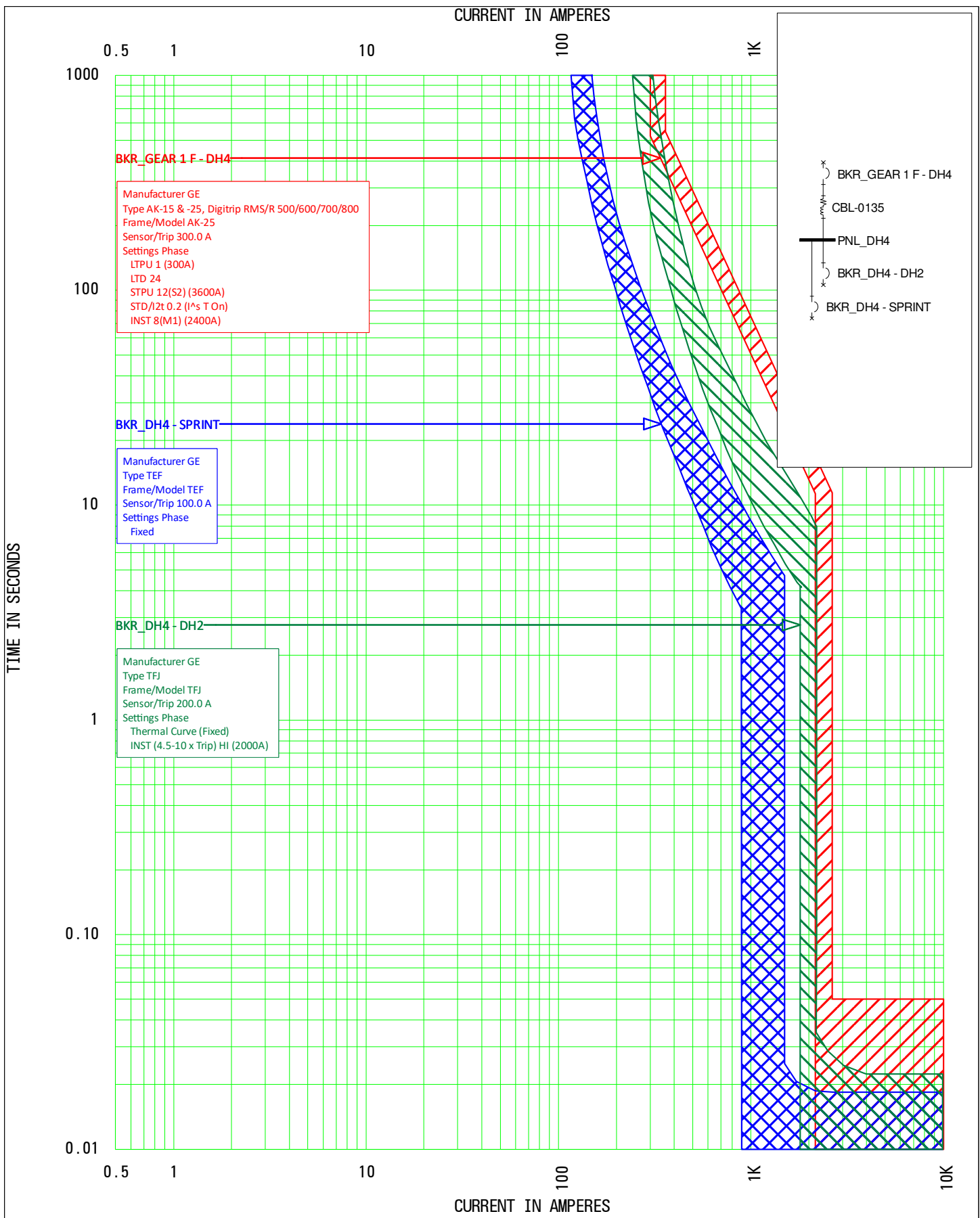0.5   1   10   100   1K   10K   100K

CURRENT IN AMPERES

TCC Name: TCC_038_PNL_D2
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 208V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_GEAR 1 F - DH4

Manufacturer GE
Type AK-15 & -25, Digitrip RMS/R 500/600/700/800
Frame/Model AK-25
Sensor/Trip 300.0 A
Settings Phase
  LTPU 1 (300A)
  LTD 24
  STPU 12(S2) (3600A)
  STD/I2t 0.2 (I^s T On)
  INST 8(M1) (2400A)

BKR_DH4 - SPRINT

Manufacturer GE
Type TEF
Frame/Model TEF
Sensor/Trip 100.0 A
Settings Phase
  Fixed

BKR_DH4 - DH2

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 200.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (4.5-10 x Trip) HI (2000A)

BKR_GEAR 1 F - DH4
CBL-0135
PNL_DH4
BKR_DH4 - DH2
BKR_DH4 - SPRINT

TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_039_PNL_DH4
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

TIME IN SECONDS

BKR_DH4 - DH2

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 200.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (4.5-10 x Trip) HI (2000A)

TX_DH2

150.0 kVA
Z=5.0000 %
Pri FLA 180.4 A

TX_DH2

TX Inrush

CURRENT IN AMPERES

BKR_DH4 - DH2

CBL-0245_1

TX_DH2

CBL-0247_1

PNL_DH2

TCC Name: TCC_040_TX_DH2
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

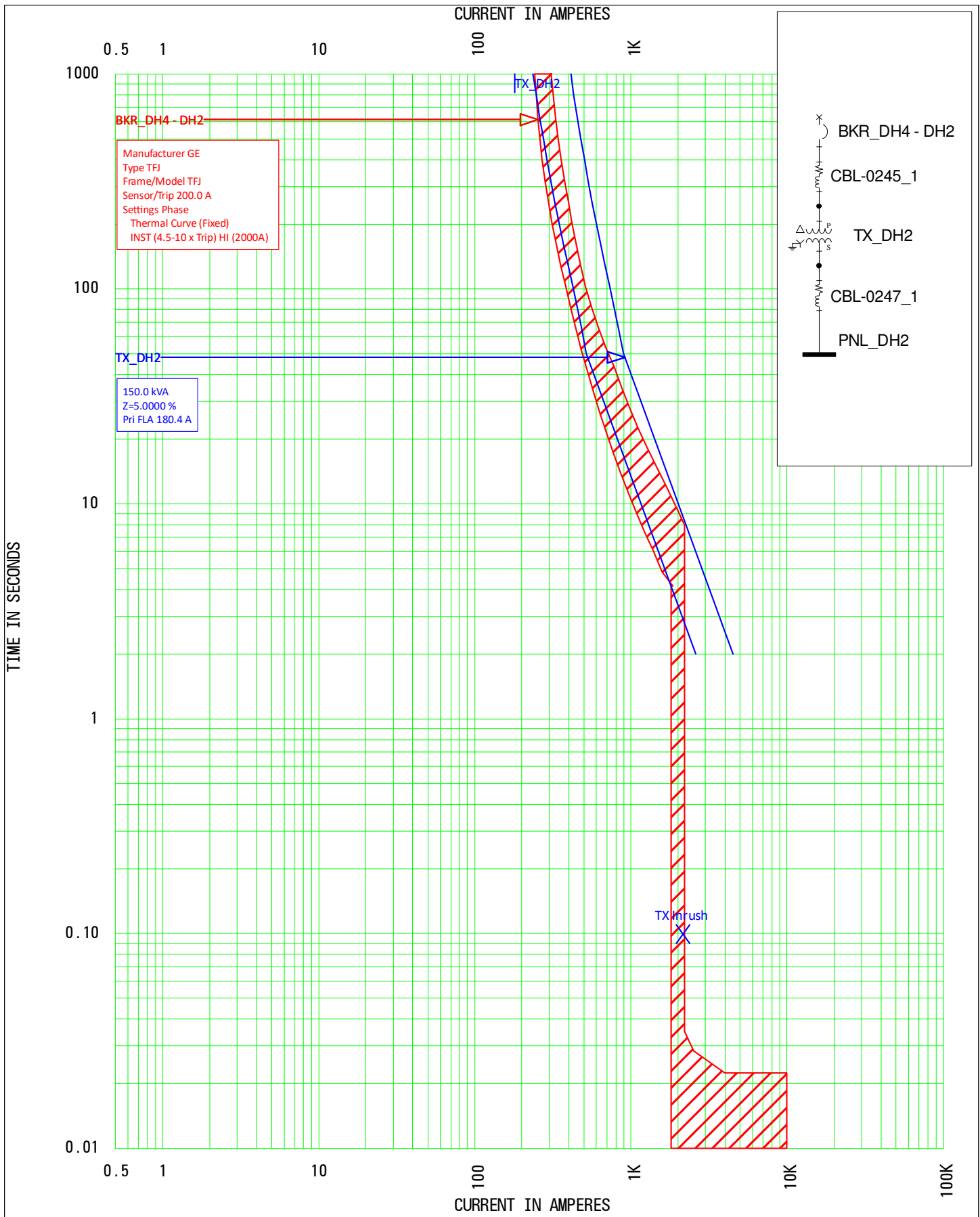CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_GEAR 1 F - ICU

Manufacturer GE
Type AK-25, AC PRO
Frame/Model AK-25
Sensor/Trip 600.0 A
Settings Phase
  LTPU (0.2-1.0 x S) 0.99 (594A)
  LTD (2.0-30.0 Secs) 6
  INST (1.5-12 x LTPU) 5.18 (3076.92A)

BKR_ICU[EMERG] - TSC

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 225.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (4.5-10 x Trip) HI (2250A)

BKR_ICU[EMERG] - TSS

Manufacturer GE
Type TED (E-100 Line)
Frame/Model TED
Sensor/Trip 30.0 A
Settings Phase
  Fixed

BKR_ICU[EMERG] - TSE

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 225.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (4.5-10 x Trip) HI (2250A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_GEAR 1 F - ICU
CBL-0141
PNL_ICU [EMERG]
BKR_ICU[EMERG] - TSE
BKR_ICU[EMERG] - TSS
BKR_ICU[EMERG] - TSC

TCC Name: TCC_041_PNL_ICU [EMERG]
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus
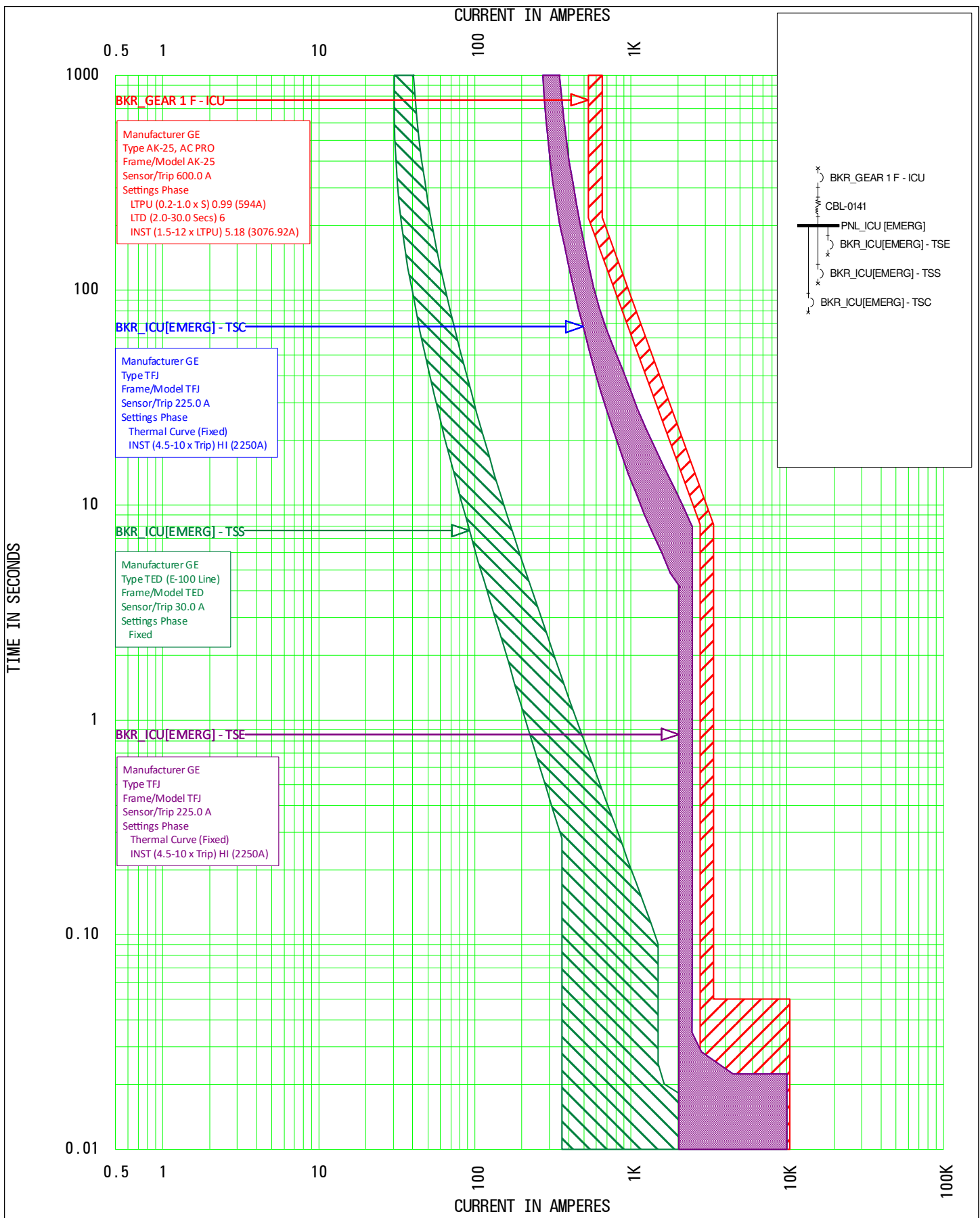
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_GEAR 1 F - DGC

Manufacturer GE
Type AK, MVT
Frame/Model AK-50
Sensor/Trip 1600.0 A
Settings Phase
  LTPU/Current Setting 0.8; 0.5 (640A)
  LTD (1-4) 1
  INST (1.5-10 x S) 2 (3200A)

BKR_DGC - PRKNG_GARAGE

Manufacturer GE
Type TED (E-100 Line)
Frame/Model TED
Sensor/Trip 100.0 A
Settings Phase
  Fixed

BKR_DGC - PNL-L24AC

Manufacturer GE
Type TED (E-150 Line)
Frame/Model TED
Sensor/Trip 125.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

BKR_GEAR 1 F - DGC
CBL-0142
PNL_DGC
BKR_DGC - PNL-L24AC
BKR_DGC - PRKNG_GARAGE

TCC Name: TCC_042_PNL_DGC
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

0.5   1   10   100   1K

1000

BKR_DGC - PRKNG_GARAGE →

Manufacturer GE
Type TED (E-100 Line)
Frame/Model TED
Sensor/Trip 100.0 A
Settings Phase
    Fixed

TX_LA

100

TX_LA →

150.0 kVA
Z=5.6000 %
Pri FLA 180.4 A

BKR_LA - MAIN →

Manufacturer SQUARE D
Type KA
Frame/Model KA
Sensor/Trip 200.0 A
Settings Phase
    Thermal Curve
    INST HI (2000A)

10

1

0.10

TX Inrush
  X

0.01

0.5   1   10   100   1K   10K   100K

CURRENT IN AMPERES

TIME IN SECONDS

BKR_DGC - PRKNG_GARAGE

CBL-0256_1

TX_LA

CBL-0265_1

BKR_LA - MAIN

TCC Name: TCC_043_TX_LA
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus
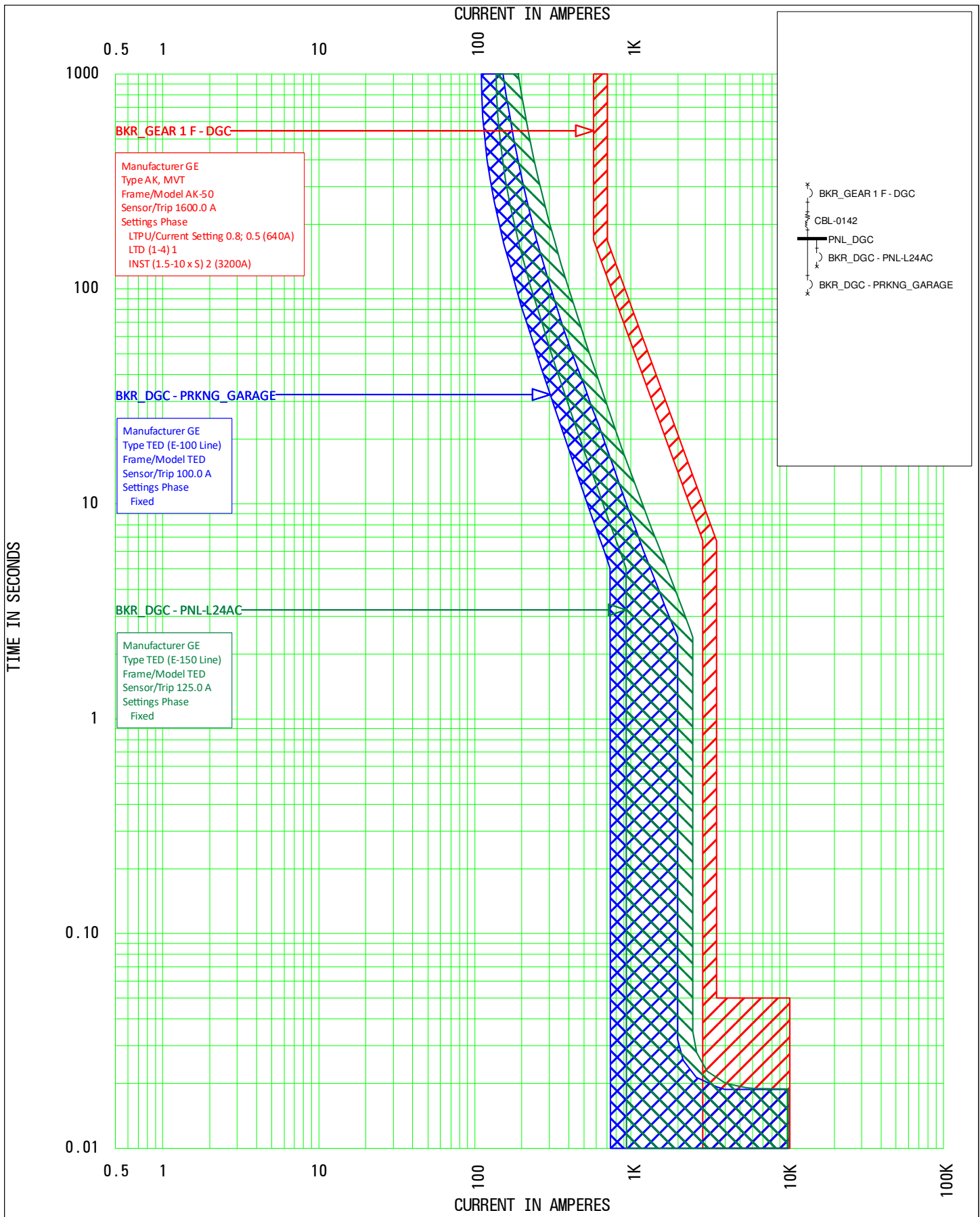
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

SERVICE #2 - GEAR 1 G - Phase
TX_GEAR 1 G

RLY_SERVICE #2 - GEAR 1 G - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 0.35 (105A)
  I2T 4.5
  SDPU 2.25 (675A)
  SDT 0.15 (sec)
  INST 12.5 (3750A)

TX_GEAR 1 G

750.0 kVA
Z=5.5600 %
Pri FLA 104.1 A

BKR_GEAR 1 G - MAIN

Manufacturer GE
Type AK-50, EC-1
Frame/Model AK-50
Sensor/Trip 800.0 A
Settings Phase
  LTPU (0.8-1.6 x S) 1.29 (1032A); Max-1A
  STPU (2-5 x S) 5.0 (4000A); Max-2A

TX Inrush

TIME IN SECONDS

RLY_SERVICE #2 - GEAR 1 G
BKR_SERVICE #2 - GEAR 1 G
CBL-0013
DSC_GEAR 1 G
SW_DSC_GEAR 1 G
TX_GEAR 1 G
BKR_GEAR 1 G - MAIN

CURRENT IN AMPERES

TCC Name: TCC_045_TX_GEAR 1 G
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
Main Campus
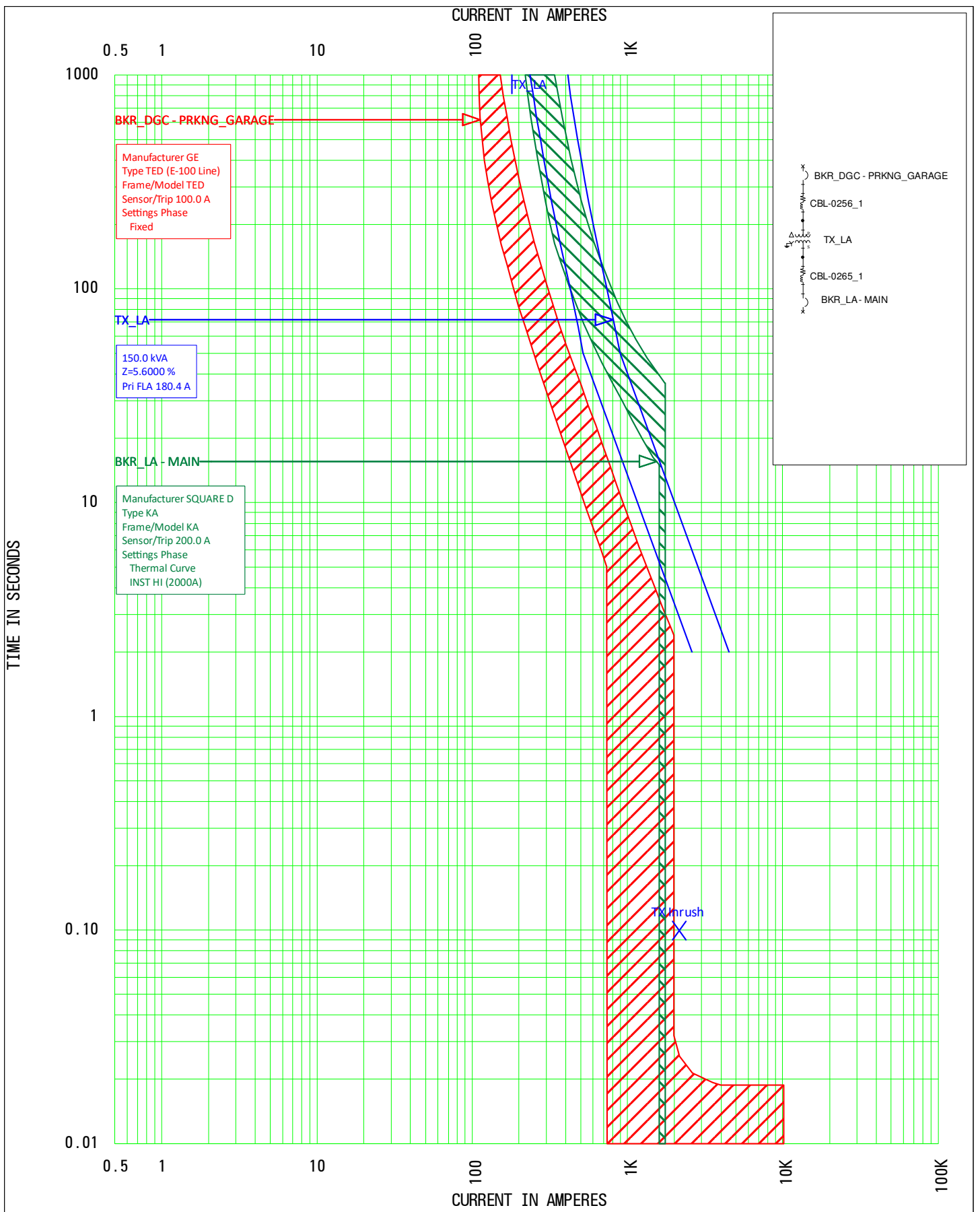
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_GEAR 1 G - MAIN
Manufacturer GE
Type AK-50, EC-1
Frame/Model AK-50
Sensor/Trip 800.0 A
Settings Phase
  LTPU (0.8-1.6 x S) 1.29 (1032A); Max-1A
  STPU (2-5 x S) 5.0 (4000A); Max-2A

BKR_GEAR 1 F - GEAR 1 G [TIE]
Manufacturer GE
Type AK-50, -75, -100, AC PRO
Frame/Model AK-50
Sensor/Trip 1600.0 A
Settings Phase
  LTPU, (20 - 100% x S) 0.4875 (780A)
  LTD, (2.5 - 30s) 6.5
  INST, (1.5 - 12 x LTPU) 5.4744 (4270A)

BKR_GEAR 1 G - ICU ATS EQ3
Manufacturer GE
Type AK, MVT Plus
Frame/Model AK-25
Sensor/Trip 600.0 A
Settings Phase
  LTPU (0.5-1.1 x P) 1 (600A)
  LTD (1-4) 1
  STPU (1.5-9 x LTPU) 4.5 (2700A)
  STD (Min-Max) Min (I^s T Off)

BKR_GEAR 1 G - ICU
Manufacturer GE/ SATIN AMERICAN
Type AK-50, ETC 11d/21d/31d
Frame/Model AK-50
Sensor/Trip 600.0 A
Settings Phase
  LTPU, (0.5 - 1.1 x P) 90 % (540A)
  LTD, (3 - 30s) Min-3
  INST, (4 - 12L x PU) 5L (2700A)

BKR_GEAR 1 G - DRLHB1
Manufacturer GE
Type AK-25, AC PRO
Frame/Model AK-25
Sensor/Trip 600.0 A
Settings Phase
  LTPU (0.2-1.0 x S) 0.51 (306A)
  LTD (2.0-30.0 Secs) 2.5
  STPU, (150 - 1200% x LTPU) 1200% (3672A)
  STD, (0.07 - 0.4s) 0.4 (I^s T Off)
  INST (1.5-12 x LTPU) 7.84 (2399.04A)

BKR_GEAR 1 G - DIETARY (DK4)
Manufacturer GE
Type AK-25, AC PRO
Frame/Model AK-25
Sensor/Trip 600.0 A
Settings Phase
  LTPU (0.2-1.0 x S) 1 (600A)
  LTD (2.0-30.0 Secs) 6.5
  INST (1.5-12 x LTPU) 5.16 (3096A)

BKR_GEAR 1 G - MCC 1
Manufacturer GE
Type AK-15 & -25, EC-2 & EC-2A
Frame/Model AK-25
Sensor/Trip 400.0 A
Settings Phase
  LTPU (1.0 x S) 1 (400A); Int-1B
  INST (4-9 x S) 5 (2000A)

BKR_GEAR 1 G - NEW AC[ATS CRH]
Manufacturer GE
Type AK-25, AC PRO
Frame/Model AK-25
Sensor/Trip 600.0 A
Settings Phase
  LTPU (0.2-1.0 x S) 0.8 (480A)
  LTD (2.0-30.0 Secs) 5
  INST (1.5-12 x LTPU) 7.5 (3600A)

BKR_GEAR 1 G - MAIN
SWBD_GEAR 1 G
BKR_GEAR 1 G - NEWAC[ATSCRH]
BKR_GEAR 1 G - MCC 1
BKR_GEAR 1 G - DIETARY (DK4)
BKR_GEAR 1 G - DRLHB1
BKR_GEAR 1 G - ICU
BKR_GEAR 1 G - ICUATSEQ3
BKR_GEAR 1 F - GEAR 1 G [TIE]

TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_046_SWBD_GEAR 1 G
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus
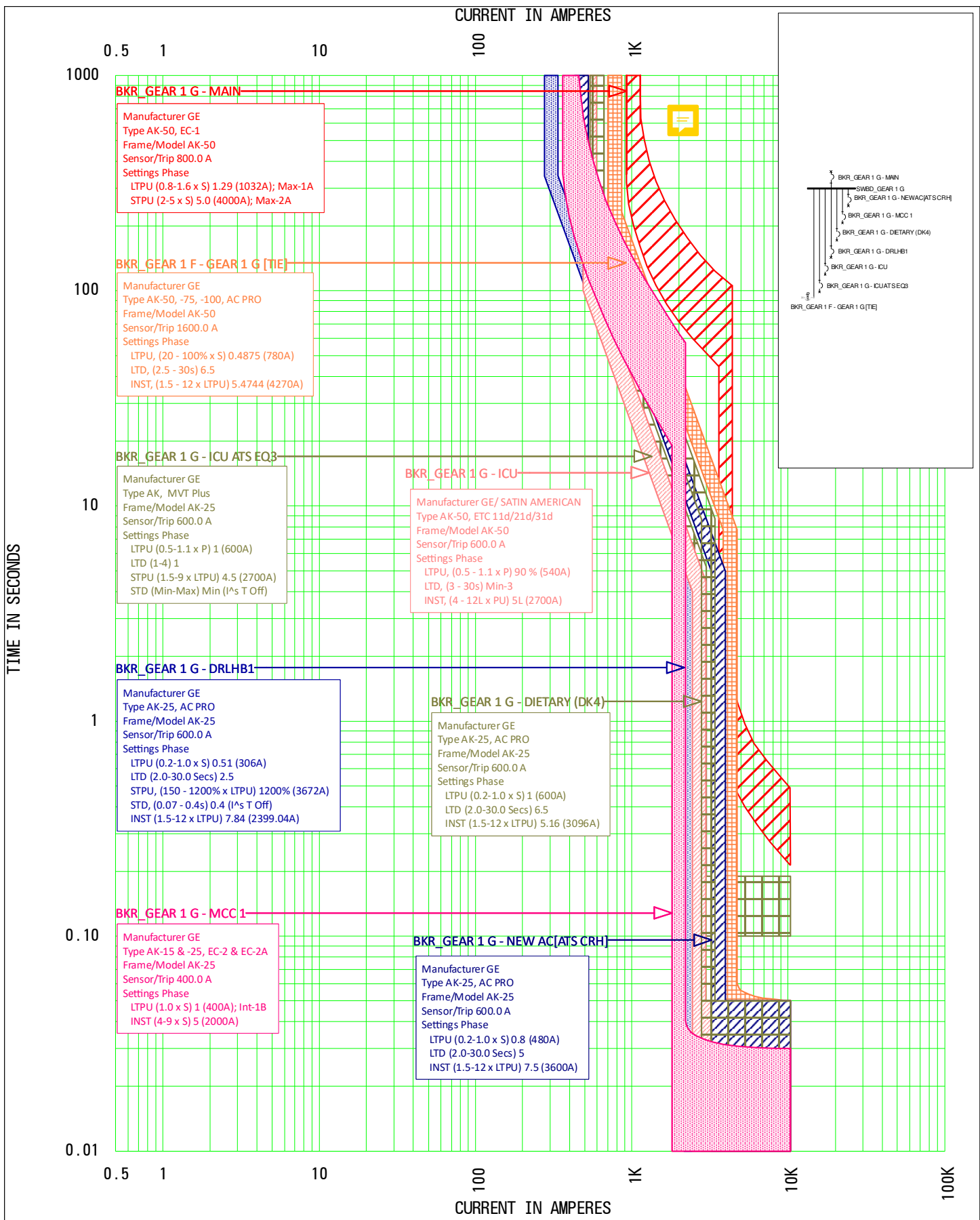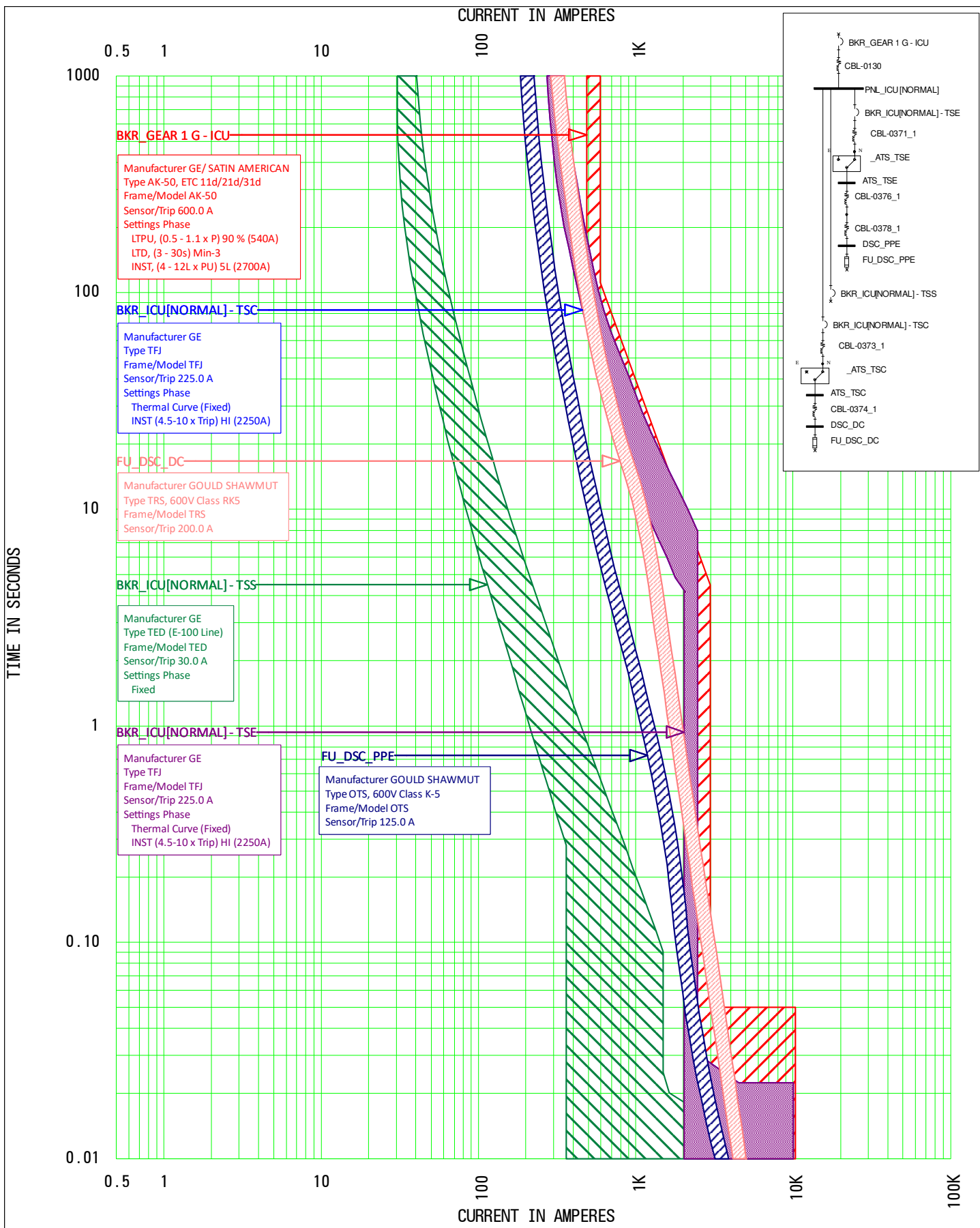
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_GEAR 1 G - ICU

Manufacturer GE/ SATIN AMERICAN
Type AK-50, ETC 11d/21d/31d
Frame/Model AK-50
Sensor/Trip 600.0 A
Settings Phase
  LTPU, (0.5 - 1.1 x P) 90 % (540A)
  LTD, (3 - 30s) Min-3
  INST, (4 - 12L x PU) 5L (2700A)

BKR_ICU[NORMAL] - TSC

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 225.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (4.5-10 x Trip) HI (2250A)

FU_DSC_DC

Manufacturer GOULD SHAWMUT
Type TRS, 600V Class RK5
Frame/Model TRS
Sensor/Trip 200.0 A

BKR_ICU[NORMAL] - TSS

Manufacturer GE
Type TED (E-100 Line)
Frame/Model TED
Sensor/Trip 30.0 A
Settings Phase
  Fixed

BKR_ICU[NORMAL] - TSE

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 225.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (4.5-10 x Trip) HI (2250A)

FU_DSC_PPE

Manufacturer GOULD SHAWMUT
Type OTS, 600V Class K-5
Frame/Model OTS
Sensor/Trip 125.0 A

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram labels:
BKR_GEAR 1 G - ICU
CBL-0130
PNL_ICU [NORMAL]
BKR_ICU[NORMAL] - TSE
CBL-0371_1
_ATS_TSE
ATS_TSE
CBL-0376_1
CBL-0378_1
DSC_PPE
FU_DSC_PPE
BKR_ICU[NORMAL] - TSS
BKR_ICU[NORMAL] - TSC
CBL-0373_1
_ATS_TSC
ATS_TSC
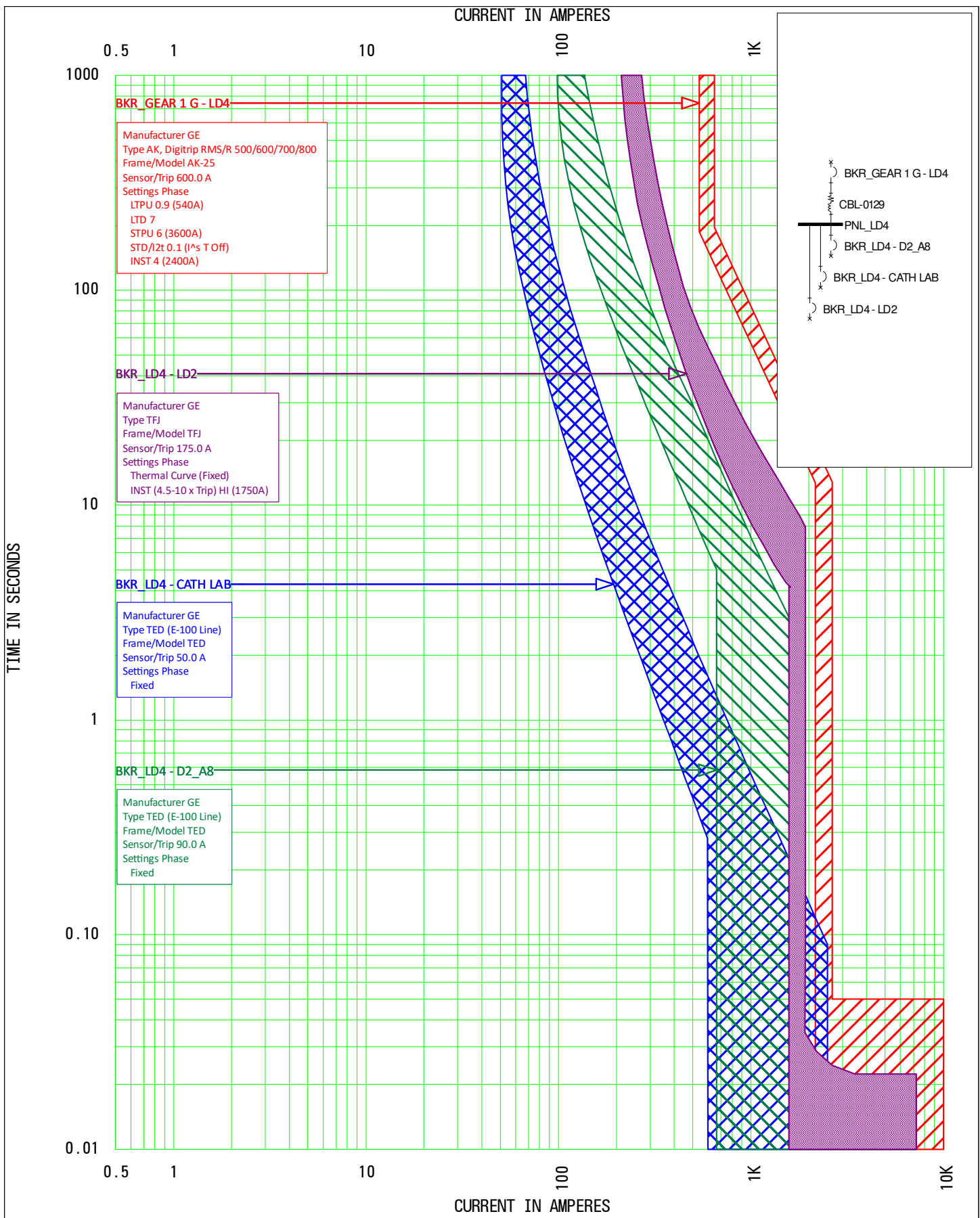CBL-0374_1
DSC_DC
FU_DSC_DC

TCC Name: TCC_047_PNL_ICU [NORMAL]
Project #810133
Recommendation_NEW
Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

Top current axis labels
0.5 1 10 100 1K

BKR_GEAR 1 G - LD4

Manufacturer GE
Type AK, Digitrip RMS/R 500/600/700/800
Frame/Model AK-25
Sensor/Trip 600.0 A
Settings Phase
  LTPU 0.9 (540A)
  LTD 7
  STPU 6 (3600A)
  STD/I2t 0.1 (I^s T Off)
  INST 4 (2400A)

BKR_LD4 - LD2

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 175.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (4.5-10 x Trip) HI (1750A)

BKR_LD4 - CATH LAB

Manufacturer GE
Type TED (E-100 Line)
Frame/Model TED
Sensor/Trip 50.0 A
Settings Phase
  Fixed

BKR_LD4 - D2_A8

Manufacturer GE
Type TED (E-100 Line)
Frame/Model TED
Sensor/Trip 90.0 A
Settings Phase
  Fixed

TIME IN SECONDS (left axis)
1000
100
10
1
0.10
0.01

One-line diagram (upper right)
BKR_GEAR 1 G - LD4
CBL-0129
PNL_LD4
BKR_LD4 - D2_A8
BKR_LD4 - CATH LAB
BKR_LD4 - LD2

Bottom current axis labels
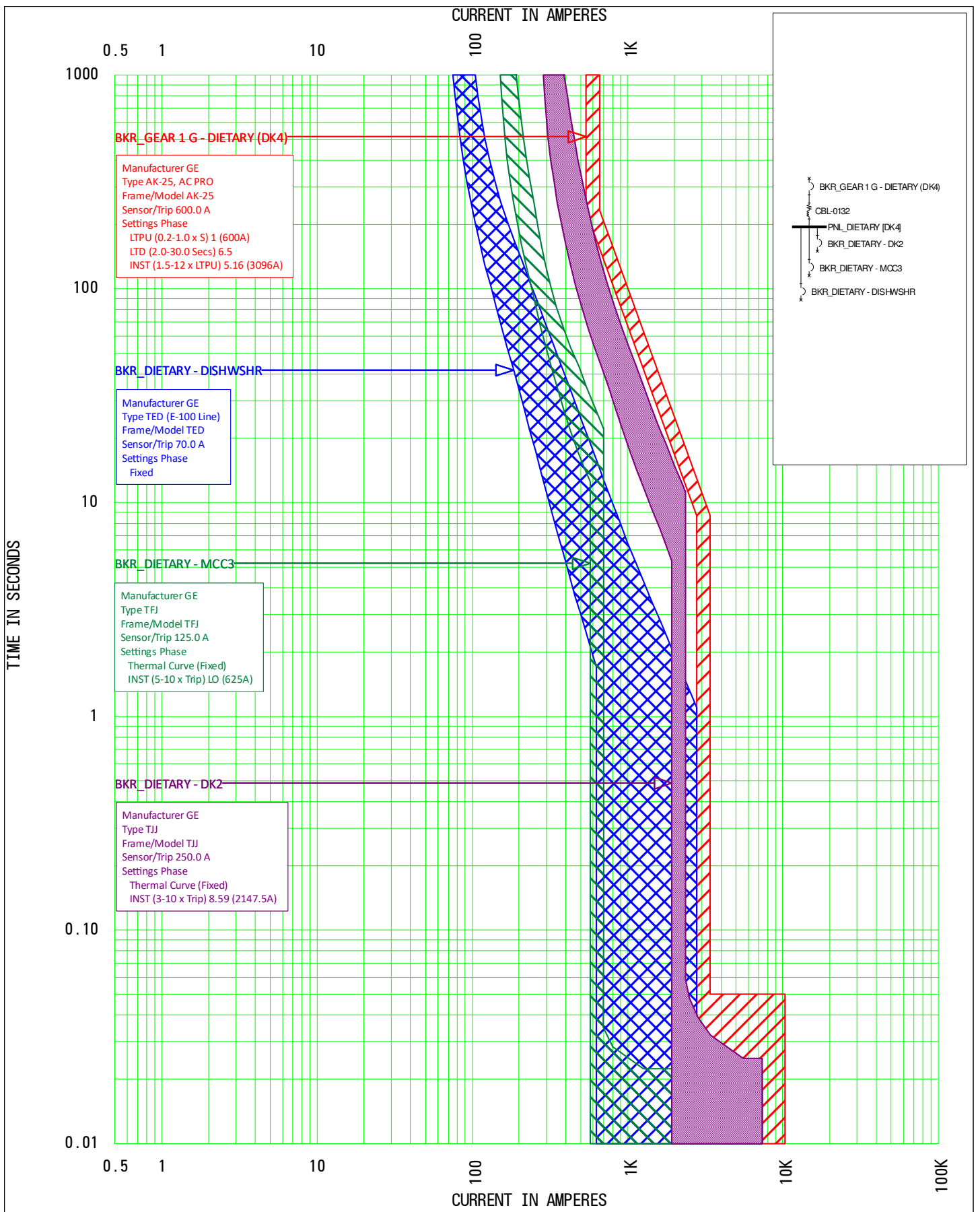0.5 1 10 100 1K 10K

CURRENT IN AMPERES

TCC Name: TCC_051_PNL_LD4
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_GEAR 1 G - DIETARY (DK4)

Manufacturer GE
Type AK-25, AC PRO
Frame/Model AK-25
Sensor/Trip 600.0 A
Settings Phase
  LTPU (0.2-1.0 x S) 1 (600A)
  LTD (2.0-30.0 Secs) 6.5
  INST (1.5-12 x LTPU) 5.16 (3096A)

BKR_DIETARY - DISHWSHR

Manufacturer GE
Type TED (E-100 Line)
Frame/Model TED
Sensor/Trip 70.0 A
Settings Phase
  Fixed

BKR_DIETARY - MCC3

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 125.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (5-10 x Trip) LO (625A)

BKR_DIETARY - DK2

Manufacturer GE
Type TJJ
Frame/Model TJJ
Sensor/Trip 250.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (3-10 x Trip) 8.59 (2147.5A)

BKR_GEAR 1 G - DIETARY (DK4)

CBL-0132

PNL_DIETARY [DK4]

BKR_DIETARY - DK2

BKR_DIETARY - MCC3

BKR_DIETARY - DISHWSHR

TIME IN SECONDS

CURRENT IN AMPERES

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DIETARY - DK2

Manufacturer GE
Type TJJ
Frame/Model TJJ
Sensor/Trip 250.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (3-10 x Trip) 8.59 (2147.5A)

TX_DK2

150.0 kVA
Z=5.0000 %
Pri FLA 180.4 A

BKR_DK2 - PC

Manufacturer GE
Type TEB
Frame/Model TEB
Sensor/Trip 90.0 A
Settings Phase
  Fixed

BKR_DK - PK 1-2-3-4

Manufacturer GE
Type TED (E-150 Line)
Frame/Model TED
Sensor/Trip 125.0 A
Settings Phase
  Fixed

BKR_DK - KP1

Manufacturer GE
Type TJJ
Frame/Model TJJ
Sensor/Trip 400.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (3-10 x Trip) HI (4000A)

TX Inrush

TIME IN SECONDS

CURRENT IN AMPERES

BKR_DIETARY - DK2

CBL-0231_1

TX_DK2

CBL-0388_1

PNL_DK2

BKR_DK - KP1

BKR_DK - PK 1-2-3-4

BKR_DK2 - PC

TCC Name: TCC_053_TX_DK2
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
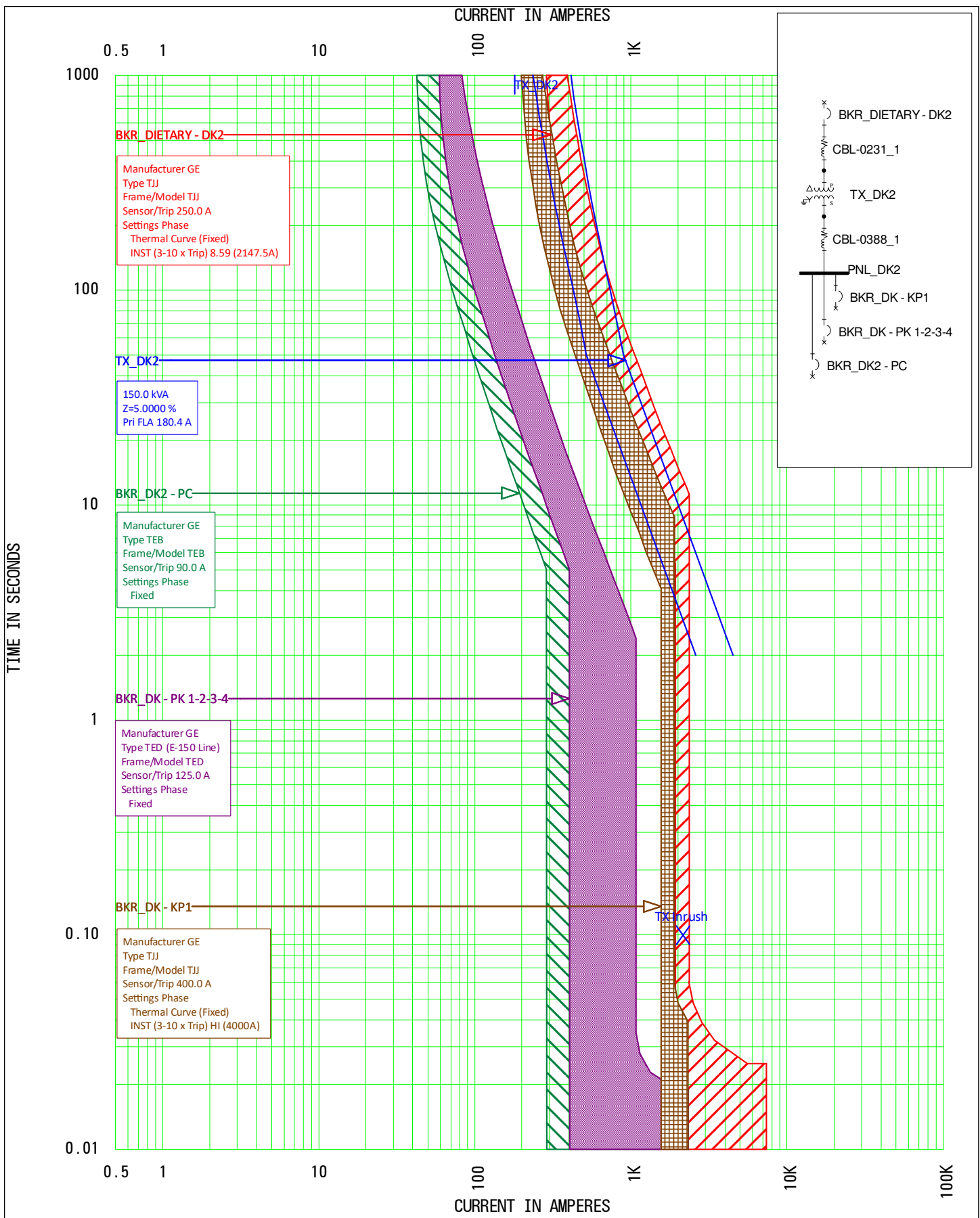POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DK - PK 1-2-3-4

Manufacturer GE
Type TED (E-150 Line)
Frame/Model TED
Sensor/Trip 125.0 A
Settings Phase
    Fixed

BKR_PK2 - MAIN

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 225.0 A
Settings Phase
    Thermal Curve (Fixed)
    INST (4.5-10 x Trip) HI (2250A)

BKR_PK2 - PK3A

Manufacturer GE
Type TED (E-150 Line)
Frame/Model TED
Sensor/Trip 150.0 A
Settings Phase
    Fixed

BKR_PK2 - RECIEVE

Manufacturer GE
Type TEB
Frame/Model TEB
Sensor/Trip 50.0 A
Settings Phase
    Fixed

TIME IN SECONDS

CURRENT IN AMPERES

BKR_DK - PK 1-2-3-4
CBL-0233_1
CBL-0239_1
BKR_PK2 - MAIN
PNL_PK2
BKR_PK2 - RECIEVE
BKR_PK2 - PK3A

TCC Name: TCC_054_PNL_PK2
Project #810133
Recommendation_NEW   Current Scale x 1

Reference Voltage: 208V
Lowell General Hospital
Main Campus
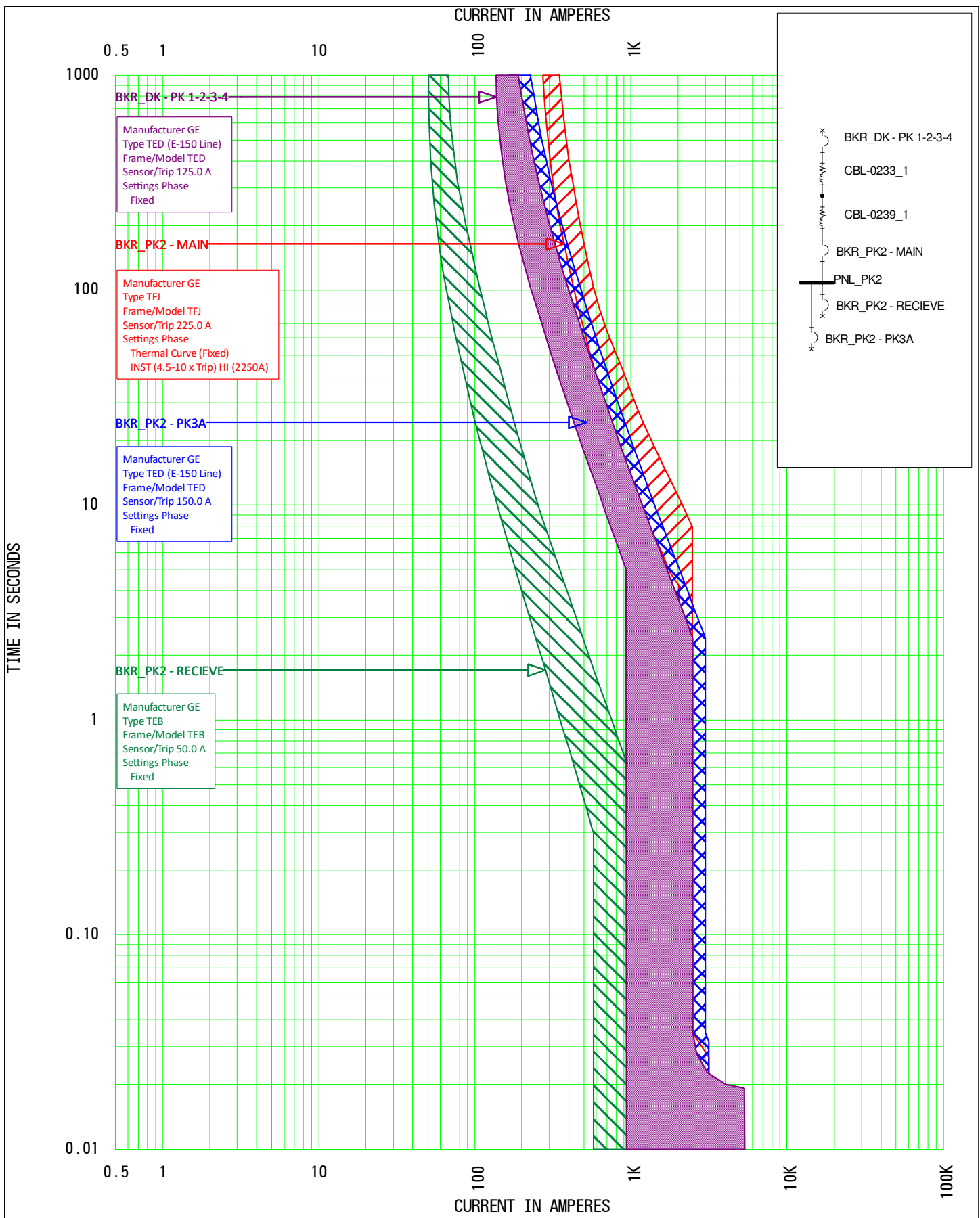
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

FU_DSC_MED SURGE

Manufacturer S&C
Type SM-4, 7.2kV E-Rated
Frame/Model SM-4, 200E
Sensor/Trip 200.0 A
Settings Phase
 200 Amps

TX_MED SURGE

300.0 kVA
Z=5.0000 %
Pri FLA 41.6 A

BKR_MED SURGE - MAIN

Manufacturer ITE
Type K-Line, OD-4
Frame/Model K-1600
Sensor/Trip 1600.0 A
Settings Phase
 LTPU w/Delay 1280A (1280A); MIN
 STPU w/Delay 16000A (16000A); MAX

TX_MED SURGE

TX Inrush

TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_056_TX_MED SURGE
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
Main Campus

FU_DSC_MED SURGE

TX_MED SURGE

CBL-0022

BKR_MED SURGE - MAIN

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_MED SURGE - MAIN

Manufacturer ITE
Type K-Line, OD-4
Frame/Model K-1600
Sensor/Trip 1600.0 A
Settings Phase
  LTPU w/Delay 1280A (1280A); MIN
  STPU w/Delay 16000A (16000A); MAX

BKR_MED SURGE [EMERG] - MAIN

Manufacturer ITE
Type ET, LM Frame
Frame/Model LM Frame
Sensor/Trip 600.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST LOW (1900A)

BKR_MED SURGE [NORMAL] - MAIN

Manufacturer ITE
Type ET, LM Frame
Frame/Model LM Frame
Sensor/Trip 600.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST LOW (1900A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_MED SURGE - MAIN
SWBD_MED SURGE
CBL-0300_1
BKR_MED SURGE [EMERG] - MAIN
CBL-0299_1
BKR_MED SURGE [NORMAL] - MAIN

TCC Name: TCC_057_SWBD_MED SURGE
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 208V
Lowell General Hospital
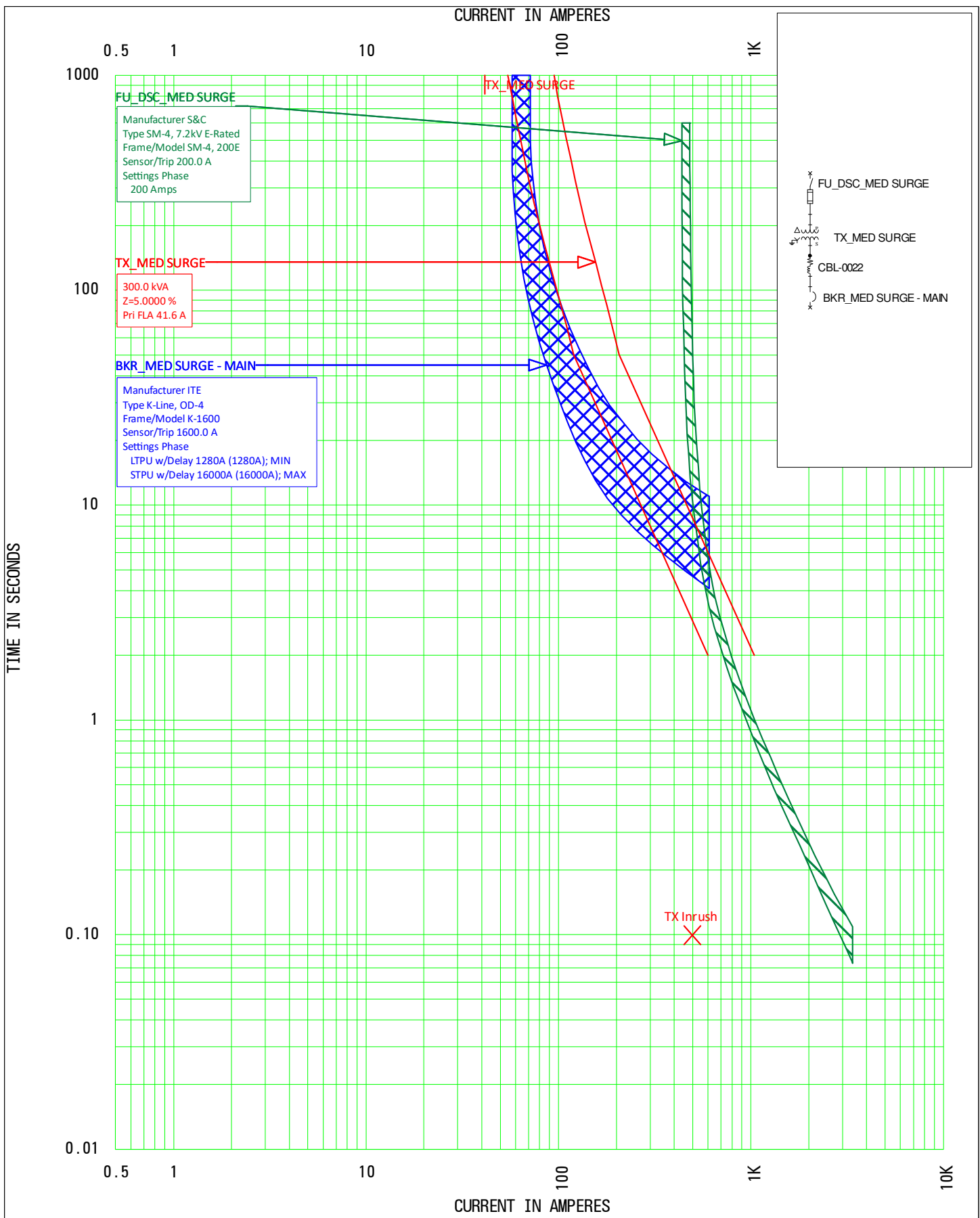Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_MED SURGE [NORMAL] - MAIN
Manufacturer ITE
Type ET, LM Frame
Frame/Model LM Frame
Sensor/Trip 600.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST LOW (1900A)

BKR_MED SURGE [N] - LG2C
Manufacturer ITE
Type ET, L Frame
Frame/Model L Frame
Sensor/Trip 125.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (800-1550A) 1550 (1550A)

BKR_MED SURGE [N] - LOWER SEC
Manufacturer ITE
Type ET, LM Frame
Frame/Model LM Frame
Sensor/Trip 300.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST LOW (1900A)

BKR_MED SURGE [N] - PG#8
Manufacturer ITE
Type ET, LM Frame
Frame/Model LM Frame
Sensor/Trip 125.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST LOW (1900A)

BKR_MED SURGE [N] - CR2A
Manufacturer ITE
Type JL
Frame/Model 225
Sensor/Trip 225.0 A
Settings Phase
  LTD
  INST 8.9 (2002.5A)

BKR_MED SURGE [N] - MS3 ELEV
Manufacturer ITE
Type ET, LM Frame
Frame/Model LM Frame
Sensor/Trip 175.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST LOW (1900A)

BKR_MED SURGE [N] - LG1
Manufacturer ITE
Type ET, LM Frame
Frame/Model LM Frame
Sensor/Trip 175.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST LOW (1900A)

BKR_MED SURGE [N] - PB
Manufacturer ITE
Type ET, LM Frame
Frame/Model LM Frame
Sensor/Trip 225.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST LOW (1900A)

BKR_MED SURGE [N] - GEN_BACKUP
Manufacturer ITE
Type ET, LM Frame
Frame/Model LM Frame
Sensor/Trip 300.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST LOW (1900A)

BKR_DSC_LGA-ER-ICU
Manufacturer GE
Type TJK
Frame/Model TJK
Sensor/Trip 225.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (3-10 x Trip) HI (2250A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_MED SURGE [NORMAL] - MAIN
PNL_MED SURGE [N]
CBL-0306_2
DSC_LGA-ER-TCU
BKR_DSC_LGA-ER-ICU
BKR_MED SURGE [N] - GEN_BACKUP
BKR_MED SURGE [N] - PB
BKR_MED SURGE [N] - LG1
BKR_MED SURGE [N] - MS3 ELEV
BKR_MED SURGE [N] - CR2A
BKR_MED SURGE [N] - PG#8
BKR_MED SURGE [N] - LOWER SEC
BKR_MED SURGE [N] - LG2C

TCC Name: TCC_058_PNL_MED SURGE [N]
Project #810133
Recommendation_NEW
Current Scale x 1

Reference Voltage: 208V
Lowell General Hospital
Main Campus

CE POWER
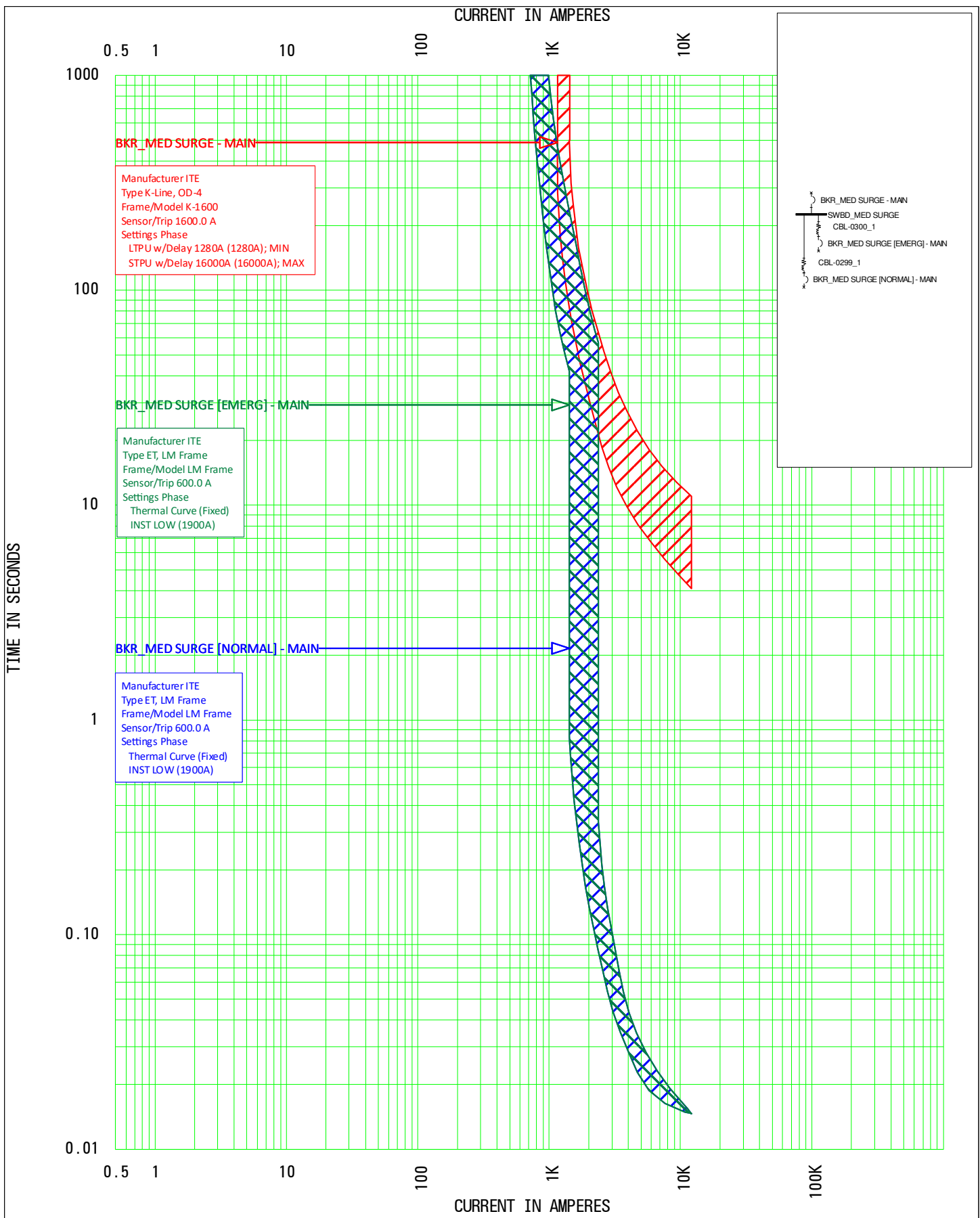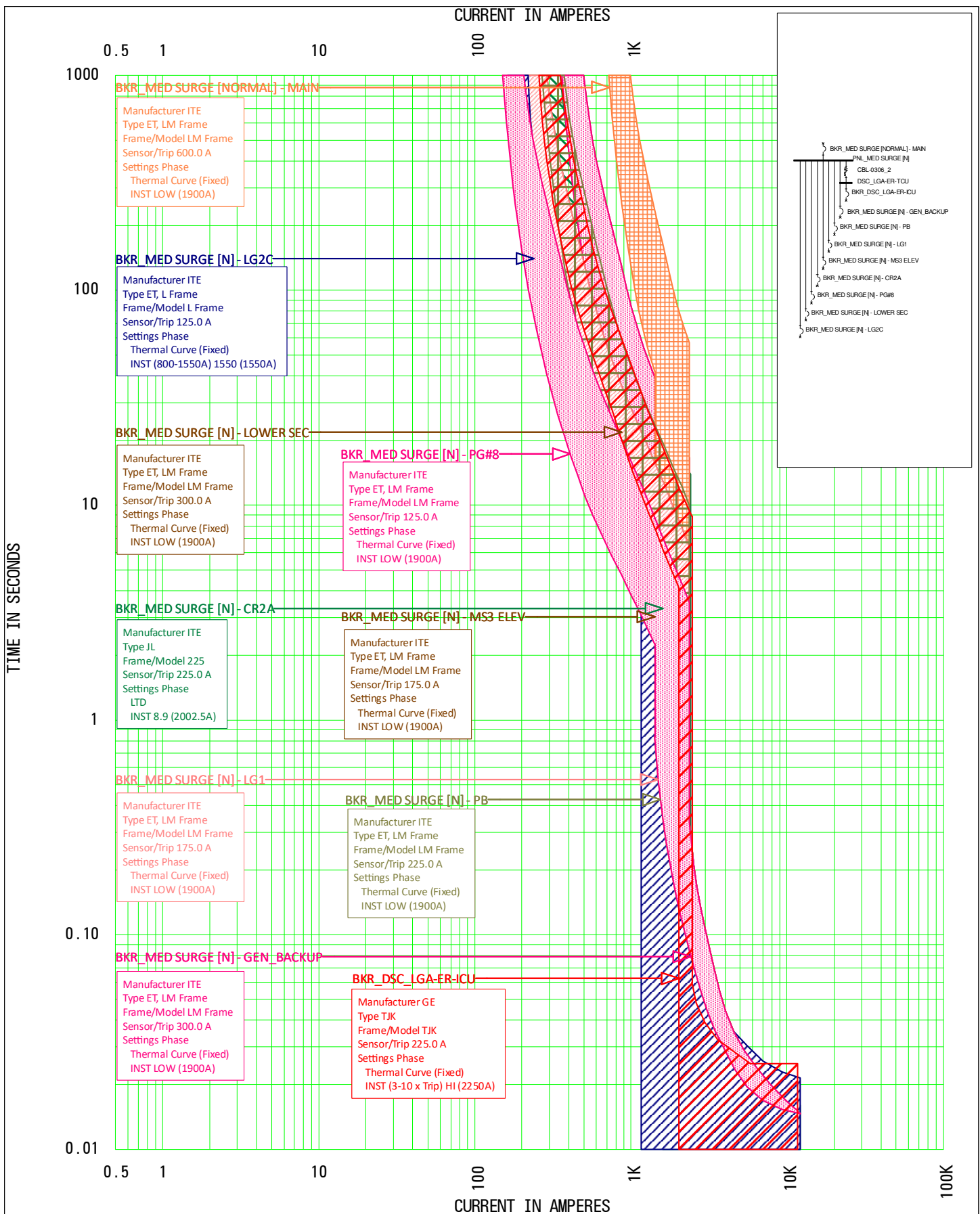POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_MED SURGE [EMERG] - MAIN

Manufacturer ITE
Type ET, LM Frame
Frame/Model LM Frame
Sensor/Trip 600.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST LOW (1900A)

BKR_MED SURGE [E] - PENTHOUSE

Manufacturer ITE
Type ET, L Frame
Frame/Model L Frame
Sensor/Trip 125.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (800-1550A) 1550 (1550A)

BKR_MED SURGE [E] - P.E.

Manufacturer ITE
Type ET, L Frame
Frame/Model L Frame
Sensor/Trip 125.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (800-1550A) 1550 (1550A)

BKR_MED SURGE [E] - LG1C-1,2,3

Manufacturer ITE
Type ET, JK Frame
Frame/Model JK
Sensor/Trip 200.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST LOW (960A)

BKR_DSC_MED SURGE [E]

Manufacturer GE
Type TJJ
Frame/Model TJJ
Sensor/Trip 350.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (3-10 x Trip) HI (3500A)

BKR_MED SURGE [E] - L2-A,B

Manufacturer ITE
Type ET, L Frame
Frame/Model L Frame
Sensor/Trip 200.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (1050-2250A) 1050 (1050A)

Diagram legend:
BKR_MED SURGE [EMERG] - MAIN
PNL_MED SURGE [E]
BKR_MED SURGE [E] - L2-AB
CBL-0413
DSC_MED SURGE [E]
BKR_DSC_MED SURGE [E]
BKR_MED SURGE [E] - LG1C-1,2,3
BKR_MED SURGE [E] - P.E.
BKR_MED SURGE [E] - PENTHOUSE

TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_059_PNL_MED SURGE [E]
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 208V
Lowell General Hospital
Main Campus
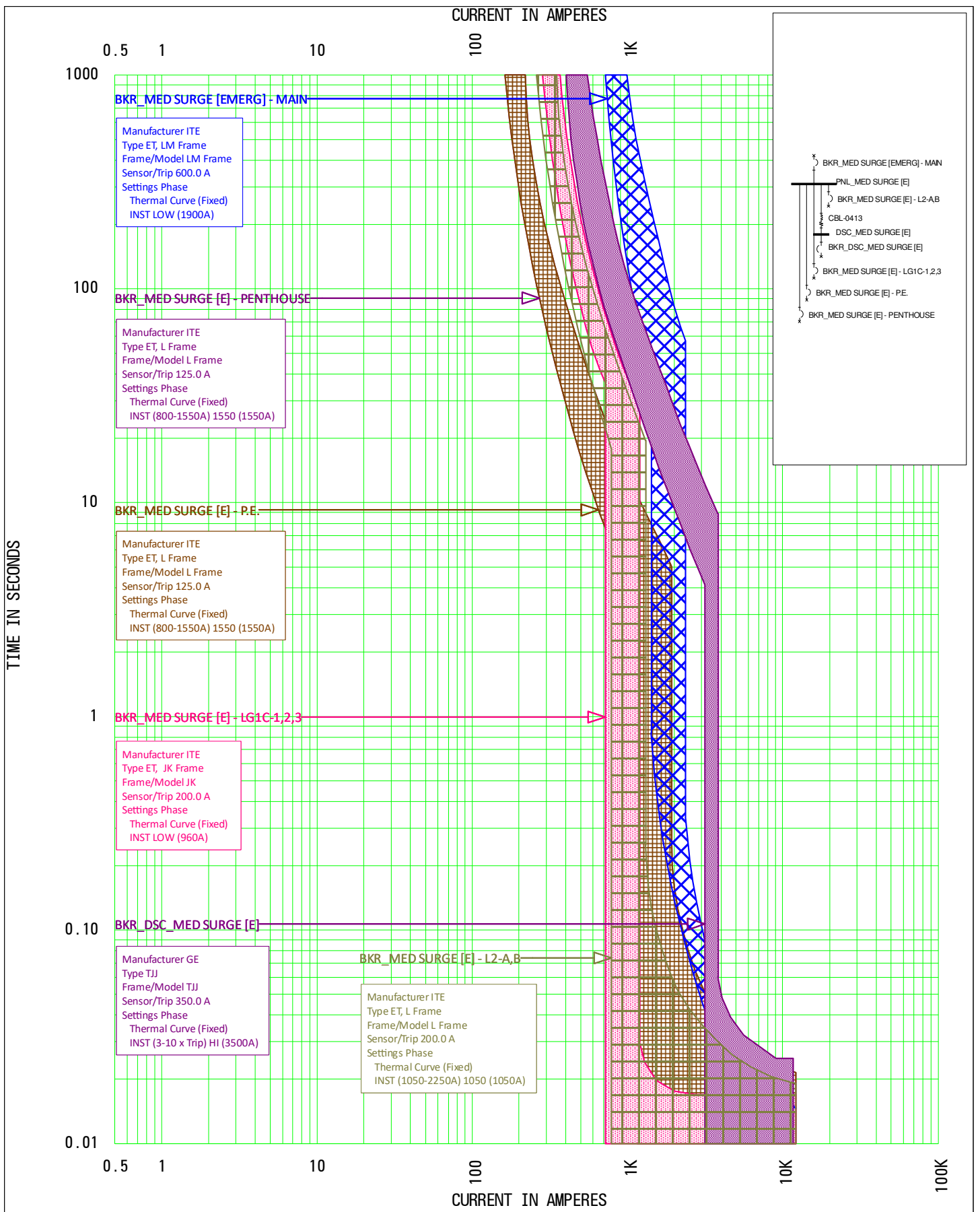
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_SERVICE #3 - MAIN

RLY_SERVICE #3 - DT-1

RLY_SERVICE #3 - DT-2

RLY_SERVICE #3 - PPSS3

RLY_SERVICE #3 - MAIN
Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
 LDPU 1.2 (360A)
 I2T 40
 SDPU 7.5 (2250A)
 SDT 1.5 (sec)
 INST NONE (29999700A)

RLY_SERVICE #3 - DT-1
Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
 LDPU 1 (300A)
 I2T 27.5
 SDPU 5.5 (1650A)
 SDT 0.5 (sec)
 INST 20 (6000A)

RLY_SERVICE #3 - DT-2
Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
 LDPU 0.95 (285A)
 I2T 27.5
 SDPU 5.5 (1650A)
 SDT 0.5 (sec)
 INST 15 (4500A)

RLY_SERVICE #3 - PPSS3
Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
 LDPU 0.55 (110A)
 I2T 9
 SDPU 3.5 (700A)
 SDT 0.2 (sec)
 INST NONE (19999800A)

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram labels:
- RLY_SERVICE #3 - MAIN
- BKR_SERVICE #3 - MAIN
- CBL-0045
- SWBD_SERVICE #3
- RLY_SERVICE #3 - PPSS3
- BKR_SERVICE #3 - PPSS3
- RLY_SERVICE #3 - DT-2
- BKR_SERVICE #3 - DT-2
- RLY_SERVICE #3 - DT-1
- BKR_SERVICE #3 - DT-1

TCC Name: TCC_060_SWBD_SERVICE #3
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
Main Campus

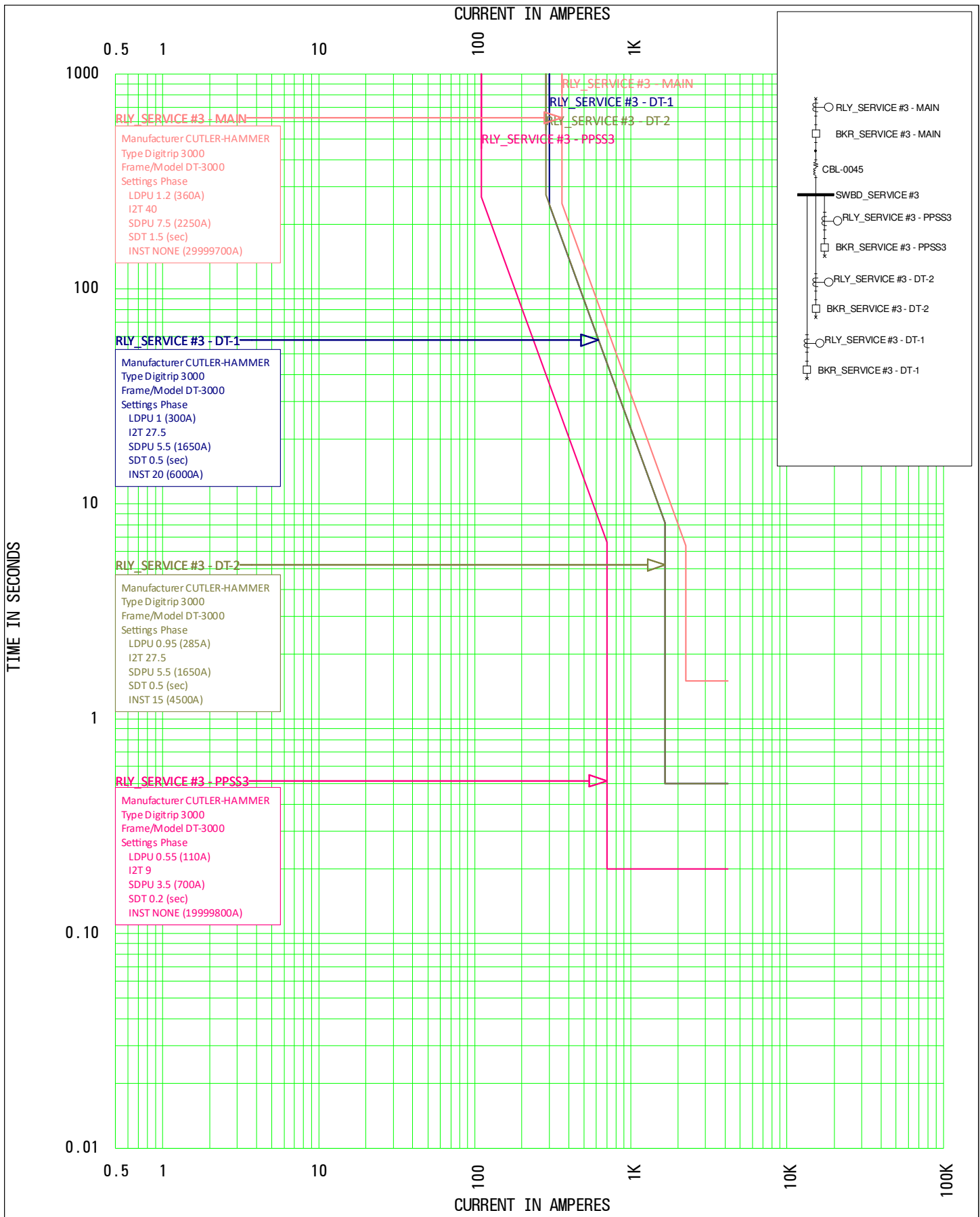**CE POWER**
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_SERVICE #3 - DT-1

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1 (300A)
  I2T 27.5
  SDPU 5.5 (1650A)
  SDT 0.5 (sec)
  INST 20 (6000A)

TX_DT-1

2000.0 kVA
Z=5.7100 %
Pri FLA 277.6 A

BKR_DT-1 - NP-LB-1

Manufacturer ABB
Type EMAX, PR121
Frame/Model E3S-A
Sensor/Trip 3200.0 A
Settings Phase
  LTPU 0.75 (2400A)
  LTD 36
  STPU 4 (12800A)
  STD-I2T 0.3 (I^s T On)

BKR_NP-LB-1 - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.750 (2400A)
  LTD-I2T, (2-24s) 9
  STPU, (200-1200A SF) 5.5 (13200A)
  STD-I2T, (0.1 - 0.5s) 0.4 (I^s T Off)
  INST, (200-1200A STD) OFF

TX Inrush

TIME IN SECONDS

CURRENT IN AMPERES

Single-line diagram nodes:
- RLY_SERVICE #3 - DT-1
- BKR_SERVICE #3 - DT-1
- CBL-0218_2
- TX_DT-1
- BKR_DT-1 - NP-LB-1
- CBL-0202
- BKR_NP-LB-1 - MAIN

TCC Name: TCC_061_TX_DT-1
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
Main Campus
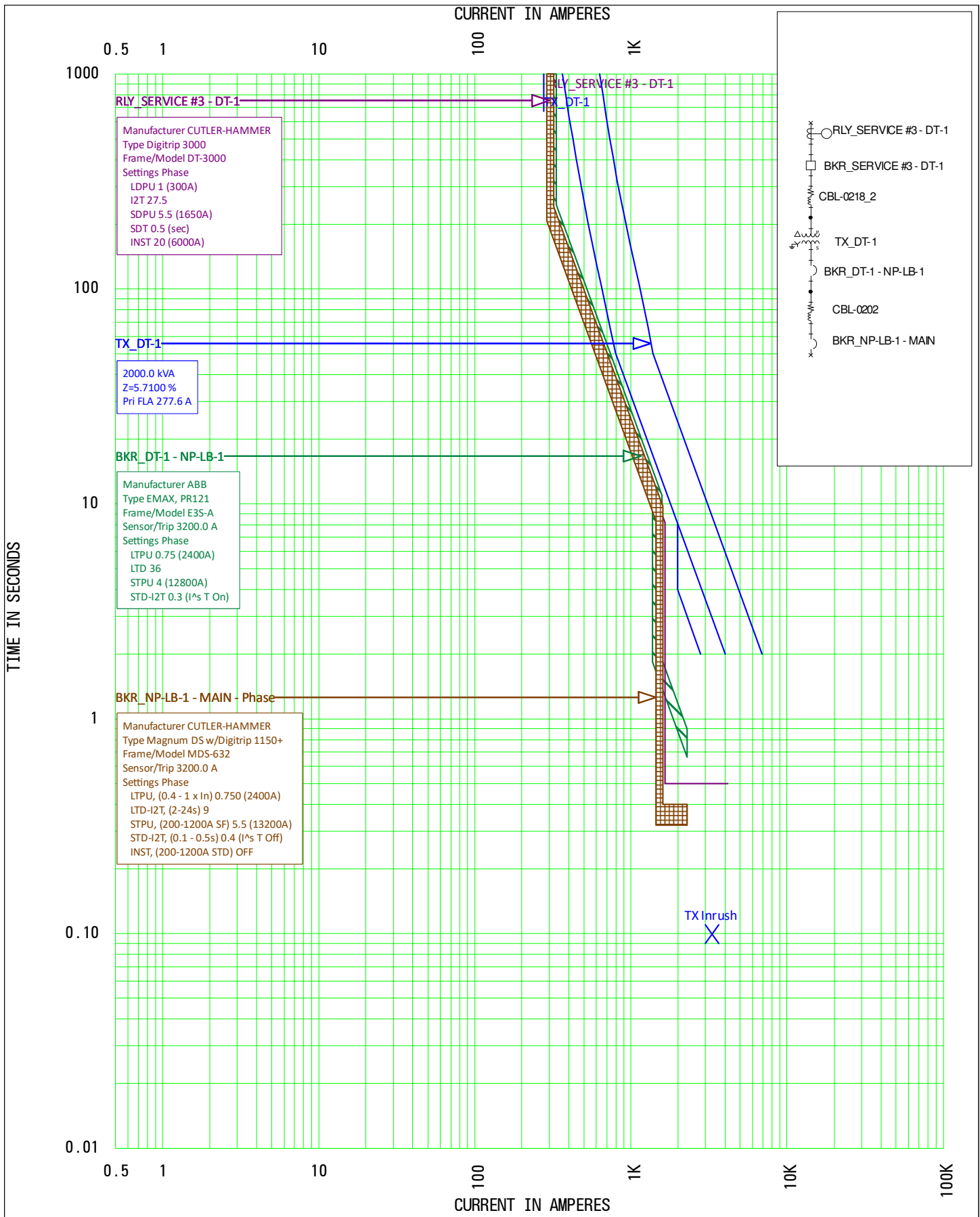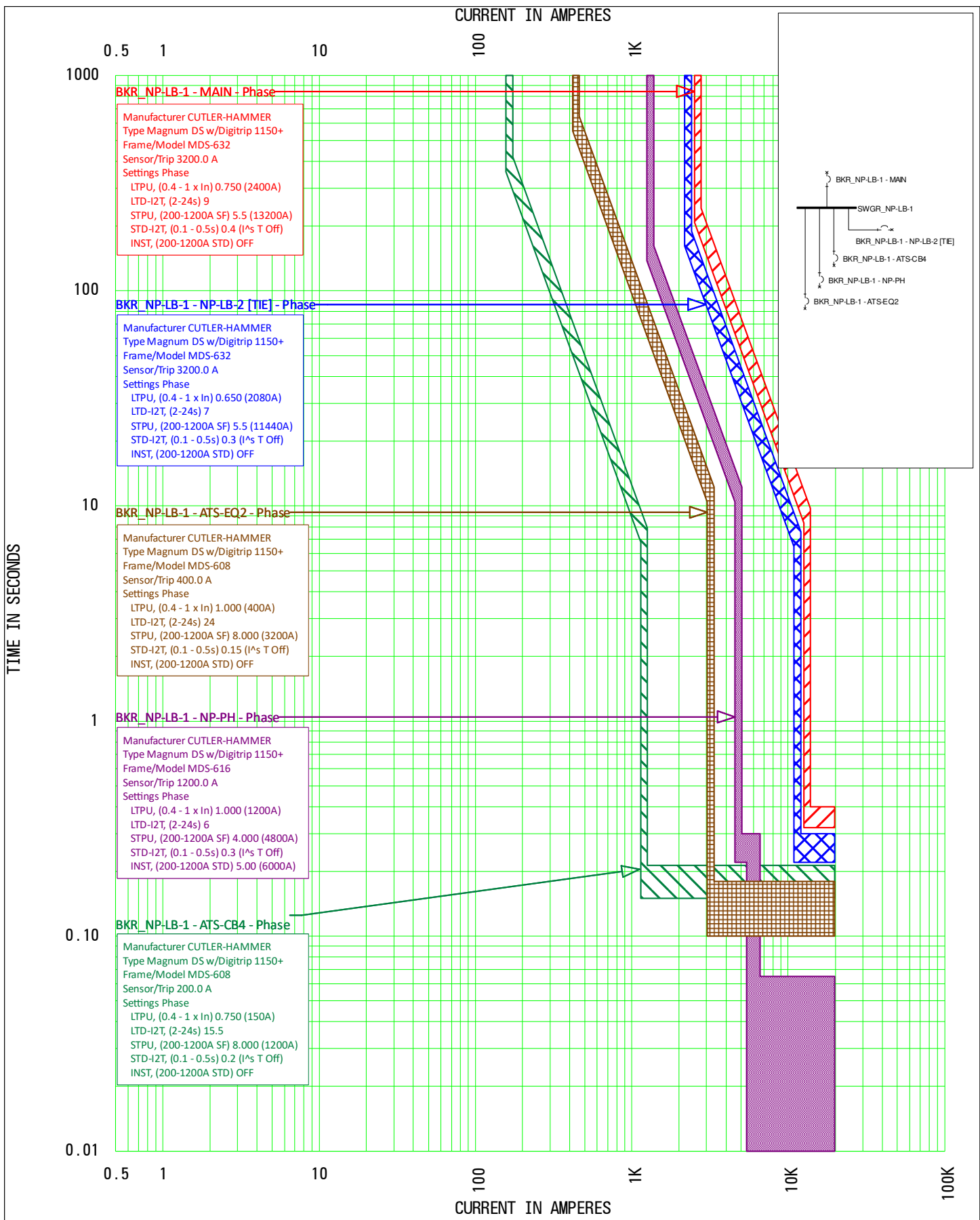
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-1 - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.750 (2400A)
  LTD-I2T, (2-24s) 9
  STPU, (200-1200A SF) 5.5 (13200A)
  STD-I2T, (0.1 - 0.5s) 0.4 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_NP-LB-1 - NP-LB-2 [TIE] - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.650 (2080A)
  LTD-I2T, (2-24s) 7
  STPU, (200-1200A SF) 5.5 (11440A)
  STD-I2T, (0.1 - 0.5s) 0.3 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_NP-LB-1 - ATS-EQ2 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 400.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (400A)
  LTD-I2T, (2-24s) 24
  STPU, (200-1200A SF) 8.000 (3200A)
  STD-I2T, (0.1 - 0.5s) 0.15 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_NP-LB-1 - NP-PH - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-616
Sensor/Trip 1200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (1200A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 4.000 (4800A)
  STD-I2T, (0.1 - 0.5s) 0.3 (I^s T Off)
  INST, (200-1200A STD) 5.00 (6000A)

BKR_NP-LB-1 - ATS-CB4 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.750 (150A)
  LTD-I2T, (2-24s) 15.5
  STPU, (200-1200A SF) 8.000 (1200A)
  STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
  INST, (200-1200A STD) OFF

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram labels:
BKR_NP-LB-1 - MAIN
SWGR_NP-LB-1
BKR_NP-LB-1 - NP-LB-2 [TIE]
BKR_NP-LB-1 - ATS-CB4
BKR_NP-LB-1 - NP-PH
BKR_NP-LB-1 - ATS-EQ2

TCC Name: TCC_062a_SWGR_NP-LB-1_ph
Project #810133
Recommendation_NEW
Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-1 - MAIN - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Neutral
GFPU, (1150, 0.25 - 1) 0.32 (1024A)
GFD, (0.1 - 0.5s) 0.4 (I^s T Off)

BKR_NP-LB-1 - NP-LB-2 [TIE] - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Neutral
GFPU, (1150, 0.25 - 1) 0.25 (800A)
GFD, (0.1 - 0.5s) 0.3 (I^s T Off)

BKR_NP-LB-1 - ATS-EQ2 - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 400.0 A
Settings Neutral
GFPU, (1150, 0.25 - 1) 0.25 (100A)
GFD, (0.1 - 0.5s) 0.2 (I^s T Off)

BKR_NP-LB-1 - NP-PH - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-616
Sensor/Trip 1200.0 A
Settings Neutral
GFPU, (1150, 0.25 - 1) 0.4 (480A)
GFD, (0.1 - 0.5s) 0.2 (I^s T Off)

BKR_NP-LB-1 - ATS-CB4 - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 200.0 A
Settings Neutral
GFPU, (1150, 0.25 - 1) 0.25 (50A)
GFD, (0.1 - 0.5s) 0.2 (I^s T Off)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_NP-LB-1 - MAIN
SWGR_NP-LB-1
BKR_NP-LB-1 - NP-LB-2 [TIE]
BKR_NP-LB-1 - ATS-CB4
BKR_NP-LB-1 - NP-PH
BKR_NP-LB-1 - ATS-EQ2

TCC Name: TCC_062b_SWGR_NP-LB-1_ne
Project #810133
Recommendation_NEW
Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus
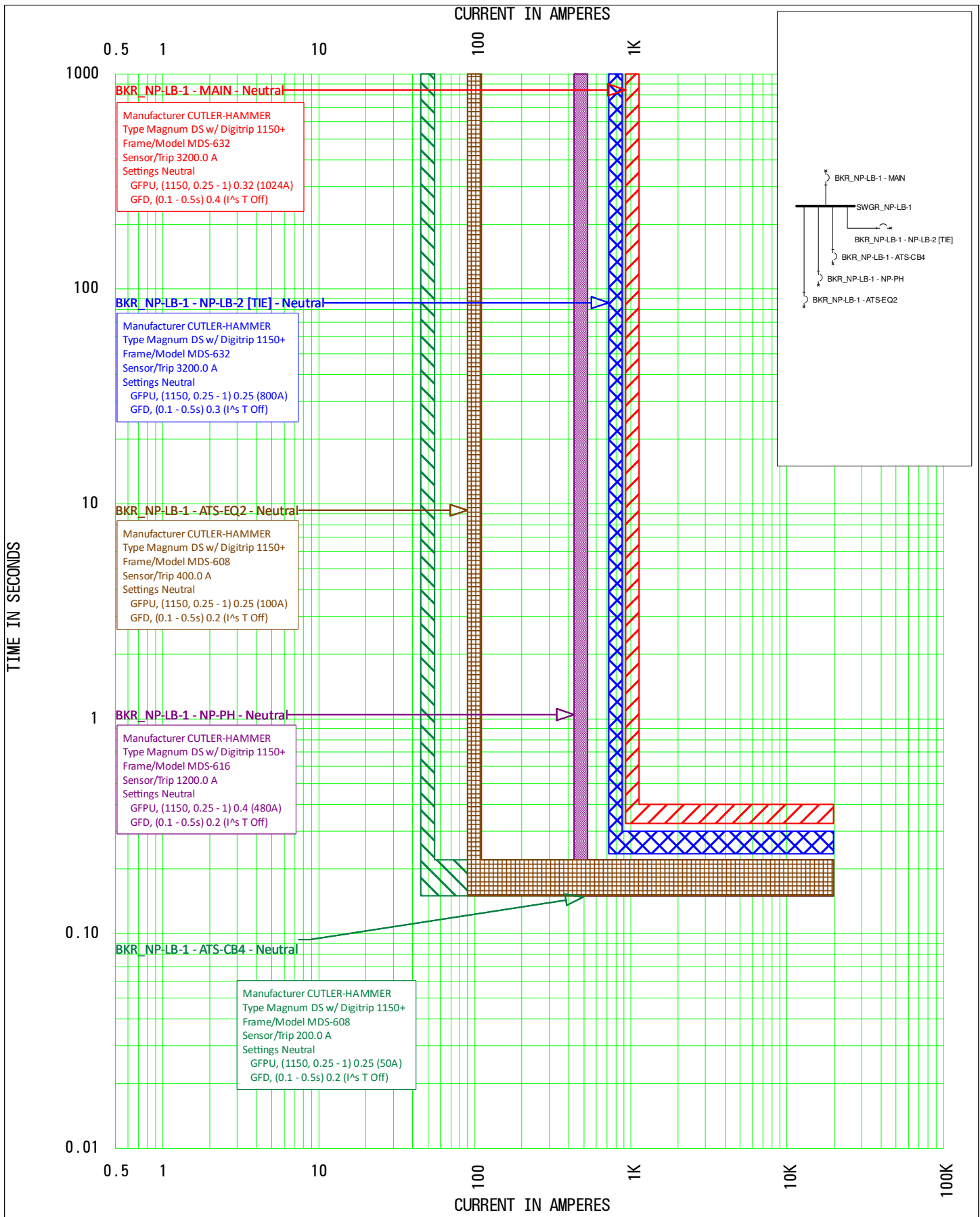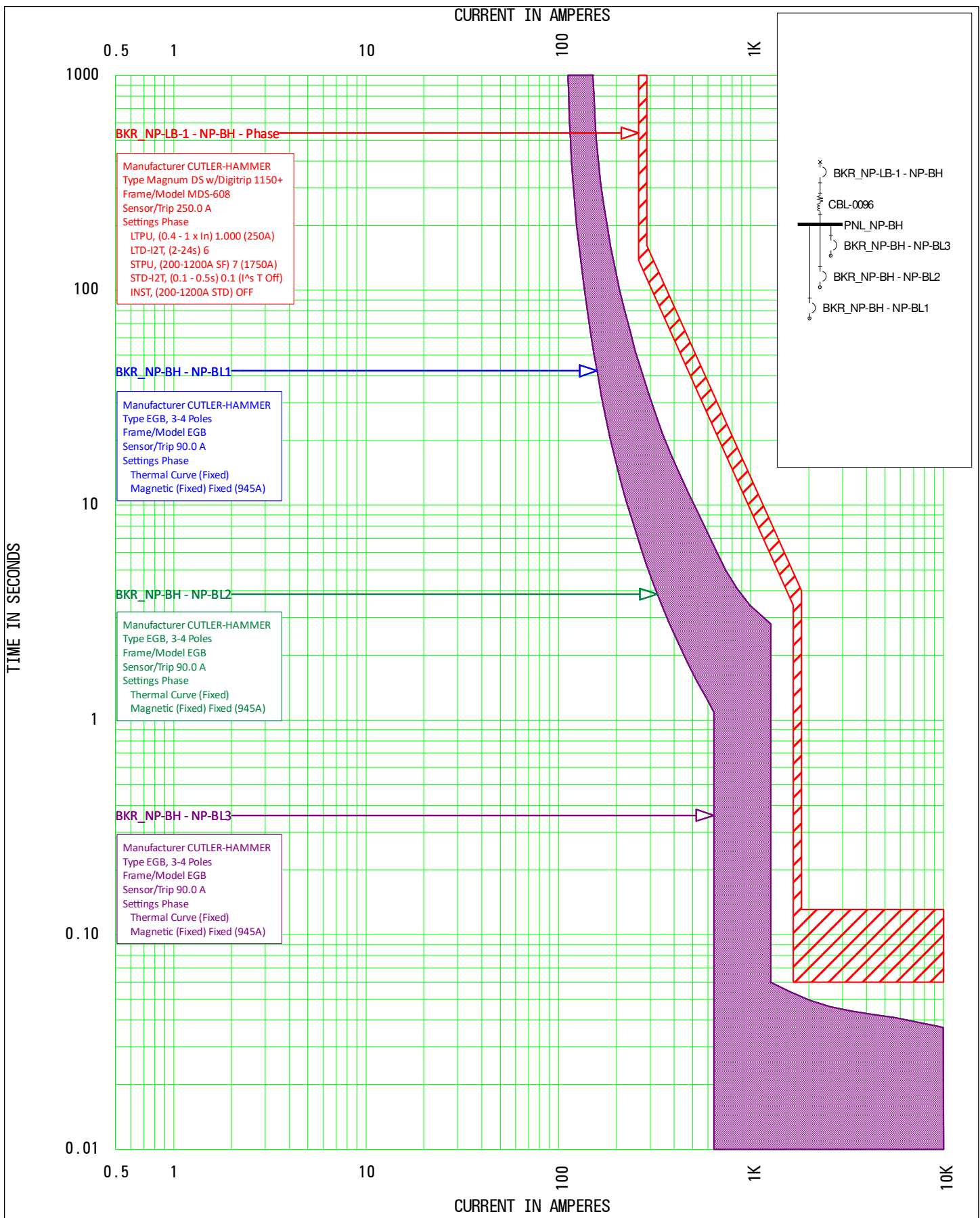
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-1 - NP-BH - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 250.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (250A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 7 (1750A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_NP-BH - NP-BL1

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_NP-BH - NP-BL2

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_NP-BH - NP-BL3

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_NP-LB-1 - NP-BH
CBL-0096
PNL_NP-BH
BKR_NP-BH - NP-BL3
BKR_NP-BH - NP-BL2
BKR_NP-BH - NP-BL1

TCC Name: TCC_063_PNL_NP-BH
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-1 - NP-GH - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 250.0 A
Settings Phase
   LTPU, (0.4 - 1 x In) 1.000 (250A)
   LTD-I2T, (2-24s) 6
   STPU, (200-1200A SF) 7 (1750A)
   STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
   INST, (200-1200A STD) OFF

BKR_NP-GH - NP-GL1

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
   Thermal Curve (Fixed)
   Magnetic (Fixed) Fixed (945A)

BKR_NP-GH - NP-GL2

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
   Thermal Curve (Fixed)
   Magnetic (Fixed) Fixed (945A)

BKR_NP-GH - NP-GL3

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
   Thermal Curve (Fixed)
   Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram:
- BKR_NP-LB-1 - NP-GH
- CBL-0097
- PNL_NP-GH
- BKR_NP-GH - NP-GL3
- BKR_NP-GH - NP-GL2
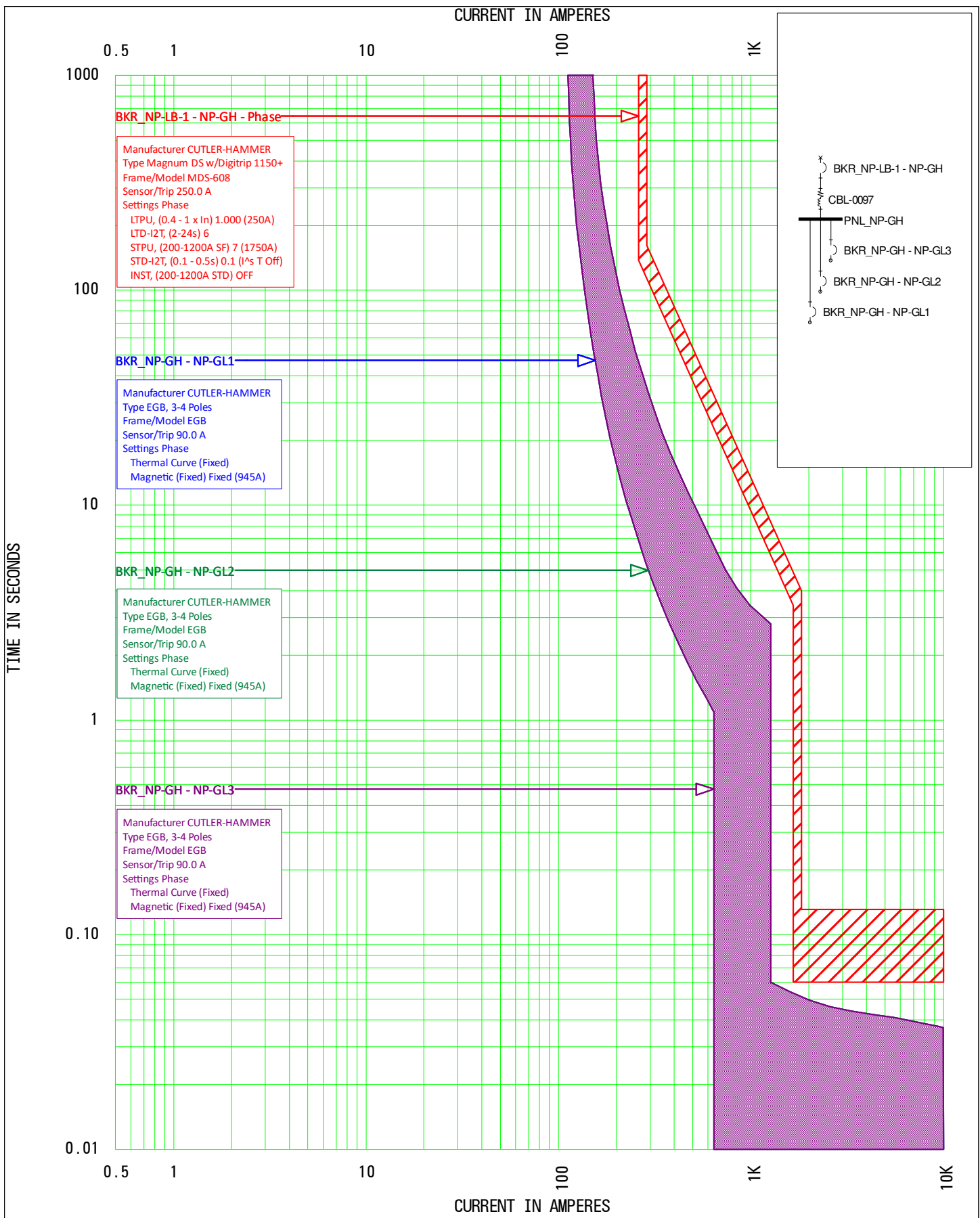- BKR_NP-GH - NP-GL1

TCC Name: TCC_064_PNL_NP-GH
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-1 - NP-1H - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 250.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (250A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 7 (1750A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_NP-1H - NP-1L1

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_NP-1H - NP-1L2

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_NP-1H - NP-1L3

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

One-line diagram legend

- BKR_NP-LB-1 - NP-1H
- CBL-0098
- PNL_NP-1H
- BKR_NP-1H - NP-1L3
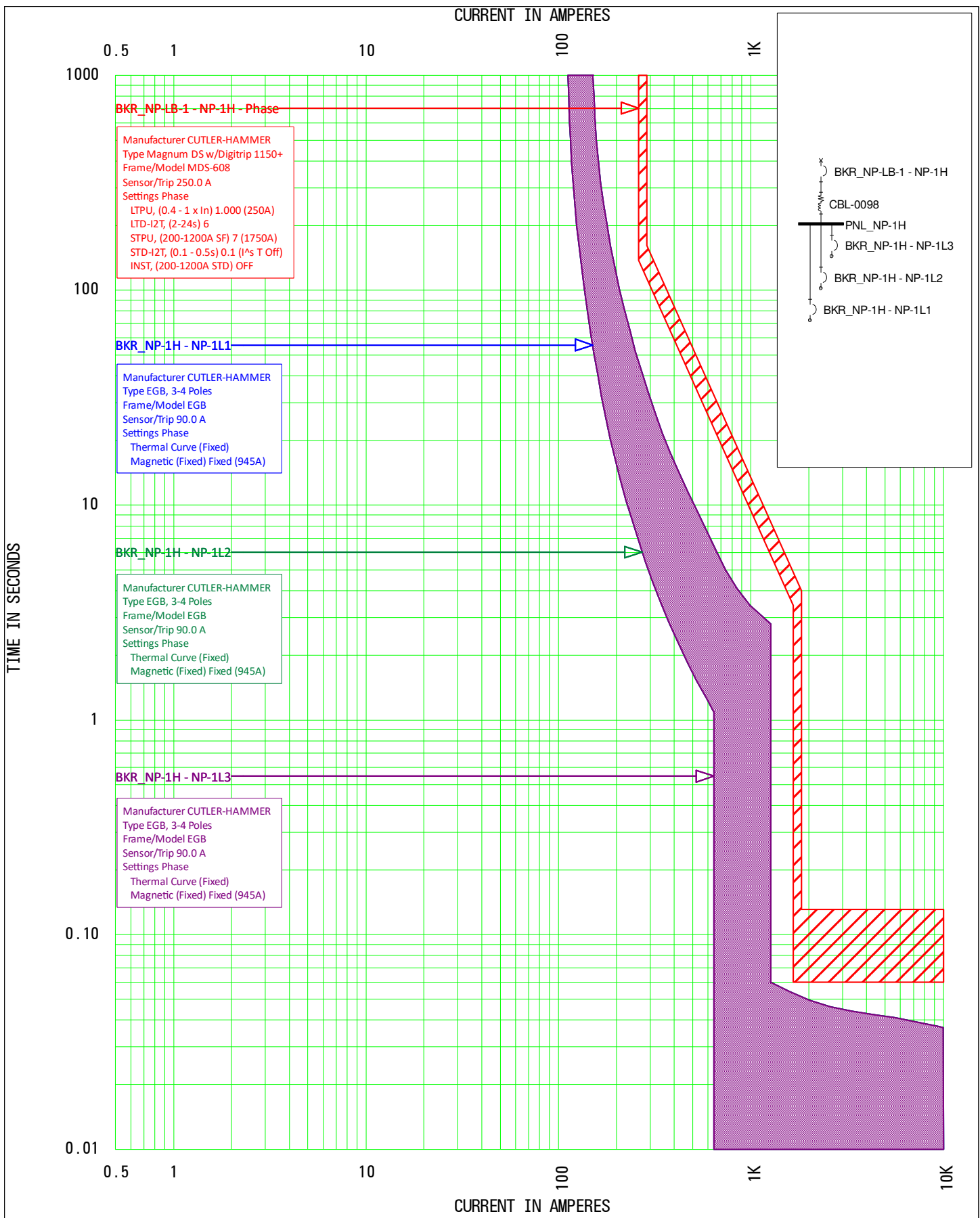- BKR_NP-1H - NP-1L2
- BKR_NP-1H - NP-1L1

CURRENT IN AMPERES

TCC Name: TCC_065_PNL_NP-1H
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-1 - NP-PH - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-616
Sensor/Trip 1200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (1200A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 4.000 (4800A)
  STD-I2T, (0.1 - 0.5s) 0.3 (I^s T Off)
  INST, (200-1200A STD) 5.00 (6000A)

BKR_NPPH - SF3-A - Phase

Manufacturer CUTLER-HAMMER
Type FDE/FDCE/HFDE, 310+
Frame/Model FDE
Sensor/Trip 225.0 A
Settings Phase
  Ir, 80A Sensor H (80) (80A)
  LTD (2 - 24s) 2
  STPU (2 - 12 x Ir) 2 (160A)
  STD FLAT (Inst-300ms) Inst (J,K,L)
  INST OR Fixed (2700A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_NP-LB-1 - NP-PH
CBL-0187
PNL_NP-PH
BKR_NPPH - SF3-A

TCC Name: TCC_066a_PNL_NP-PH_ph
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
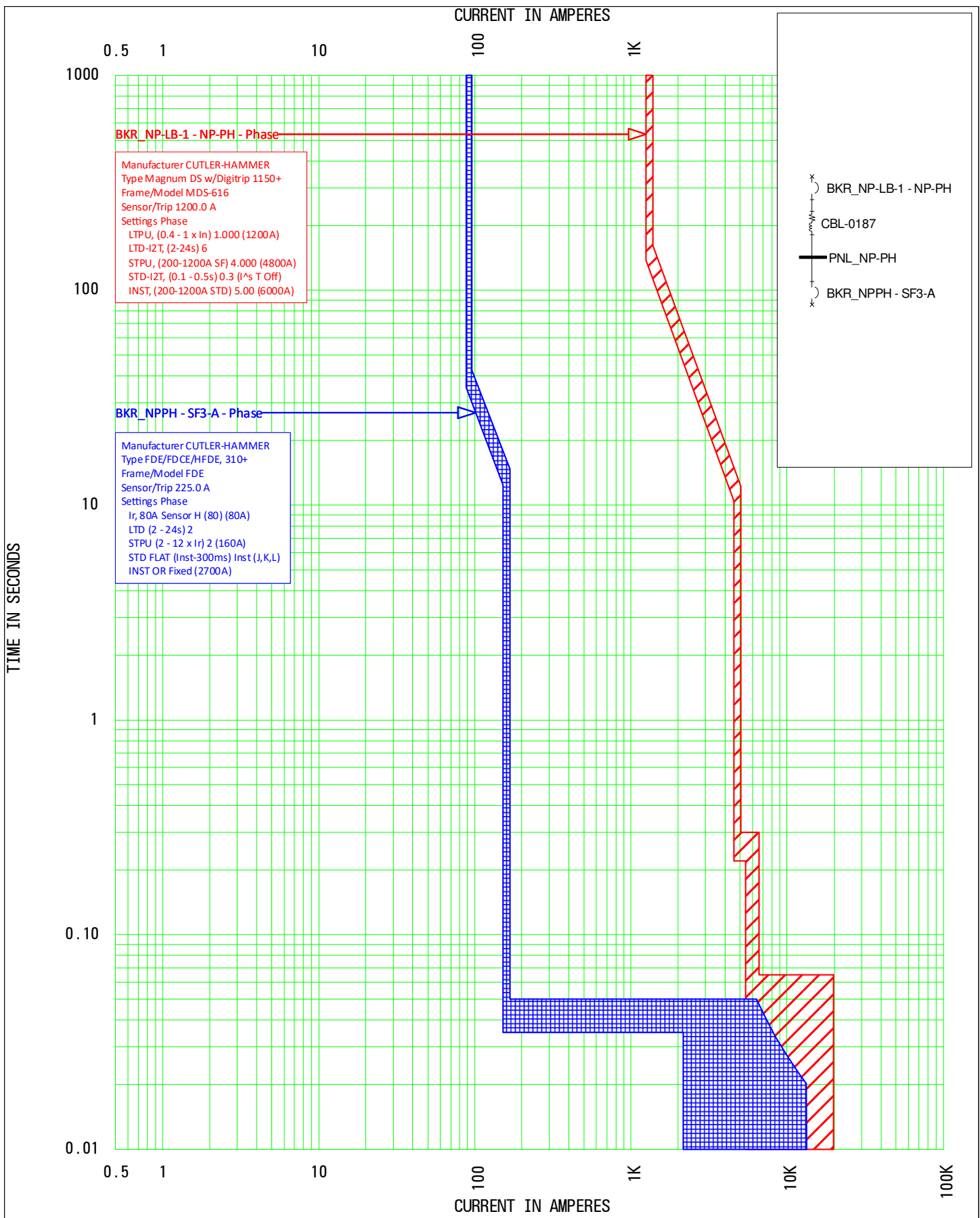Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

CURRENT IN AMPERES

BKR_NP-LB-1 - NP-PH - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-616
Sensor/Trip 1200.0 A
Settings Neutral
  GFPU, (1150, 0.25 - 1) 0.4 (480A)
  GFD, (0.1 - 0.5s) 0.2 (I^s T Off)

BKR_NPPH - SF3-A - Neutral

Manufacturer CUTLER-HAMMER
Type FDE/FDCE/HFDE, 310+
Frame/Model FDE
Sensor/Trip 225.0 A
Settings Neutral
  GFPU, (0.2 - 1 x S) 0.2 (45A)

TIME IN SECONDS

BKR_NP-LB-1 - NP-PH

CBL-0187

PNL_NP-PH

BKR_NPPH - SF3-A

TCC Name: TCC_066b_PNL_NP-PH_ne
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus
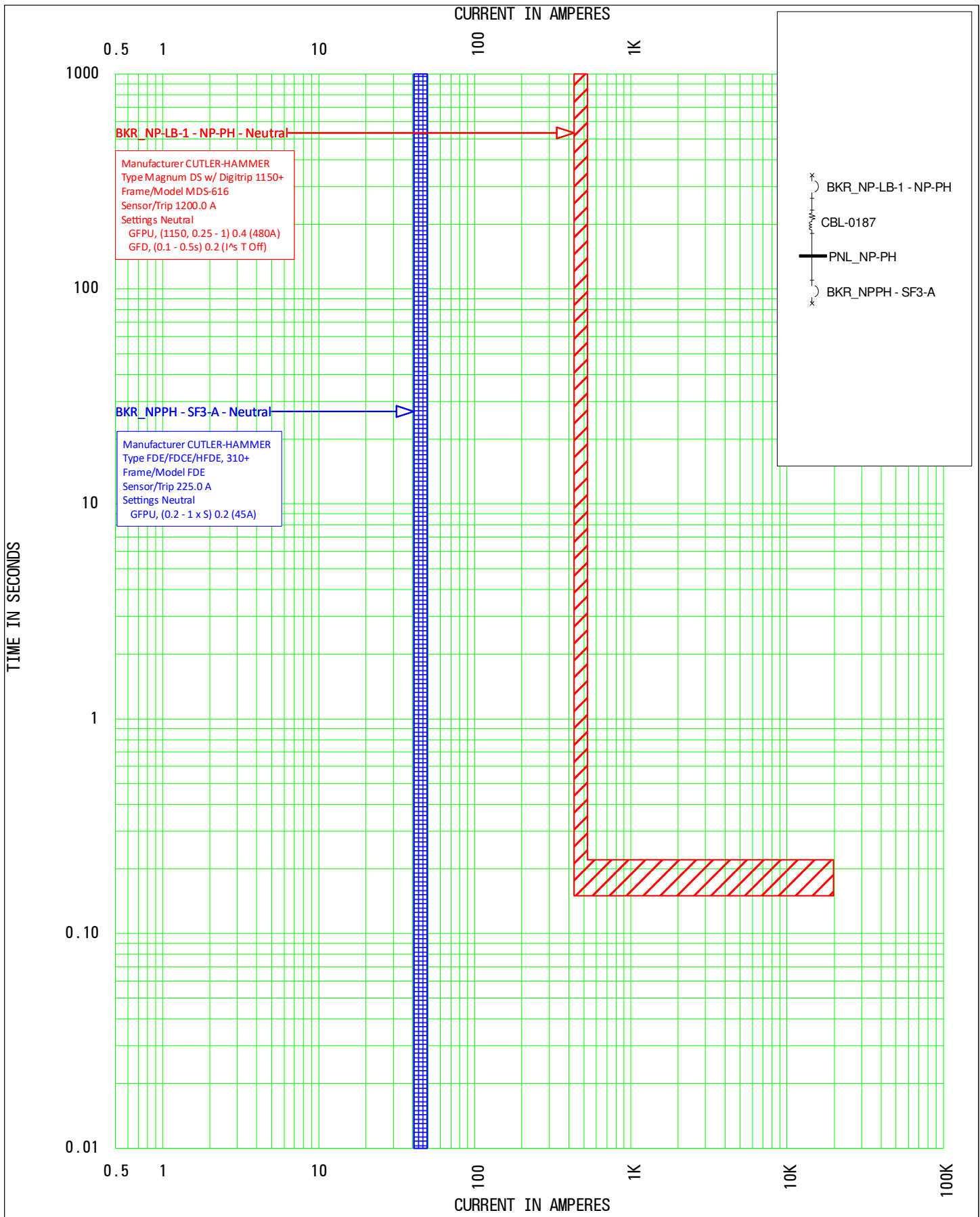
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

TIME IN SECONDS

RLY_SERVICE #3 - DT-2
TX_DT-2

RLY_SERVICE #3 - DT-2

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 0.95 (285A)
  I2T 27.5
  SDPU 5.5 (1650A)
  SDT 0.5 (sec)
  INST 15 (4500A)

TX_DT-2

2000.0 kVA
Z=5.7500 %
Pri FLA 277.6 A

BKR_DT-2 - NP-LB-2

Manufacturer ABB
Type EMAX, PR121
Frame/Model E3S-A
Sensor/Trip 3200.0 A
Settings Phase
  LTPU 0.725 (2320A)
  LTD 36
  STPU 4 (12800A)
  STD-I2T 0.3 (I^s T On)

BKR_NP-LB-2 - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.750 (2400A)
  LTD-I2T, (2-24s) 9
  STPU, (200-1200A SF) 5.5 (13200A)
  STD-I2T, (0.1 - 0.5s) 0.4 (I^s T Off)
  INST, (200-1200A STD) OFF

TX Inrush

RLY_SERVICE #3 - DT-2

BKR_SERVICE #3 - DT-2

CBL-0219_1

TX_DT-2

BKR_DT-2 - NP-LB-2

CBL-0203

BKR_NP-LB-2 - MAIN

CURRENT IN AMPERES

CURRENT IN AMPERES

BKR_NP-LB-2 - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Phase
 LTPU, (0.4 - 1 x In) 0.750 (2400A)
 LTD-I2T, (2-24s) 9
 STPU, (200-1200A SF) 5.5 (13200A)
 STD-I2T, (0.1 - 0.5s) 0.4 (I^s T Off)
 INST, (200-1200A STD) OFF

BKR_NP-LB-1 - NP-LB-2 [TIE] - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Phase
 LTPU, (0.4 - 1 x In) 0.650 (2080A)
 LTD-I2T, (2-24s) 7
 STPU, (200-1200A SF) 5.5 (11440A)
 STD-I2T, (0.1 - 0.5s) 0.3 (I^s T Off)
 INST, (200-1200A STD) OFF

BKR_NP-LB-2 - ATS CB2 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
 LTPU, (0.4 - 1 x In) 0.500 (400A)
 LTD-I2T, (2-24s) 6
 STPU, (200-1200A SF) 5 (2000A)
 STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
 INST, (200-1200A STD) OFF

BKR_NP-LB-2 - ATS EQ1 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
 LTPU, (0.4 - 1 x In) 1.000 (800A)
 LTD-I2T, (2-24s) 12
 STPU, (200-1200A SF) 7.5 (6000A)
 STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
 INST, (200-1200A STD) OFF

BKR_NP-LB-2 - ATS XR - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
 LTPU, (0.4 - 1 x In) 0.750 (600A)
 LTD-I2T, (2-24s) 6
 STPU, (200-1200A SF) 3.000 (1800A)
 STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
 INST, (200-1200A STD) OFF

TIME IN SECONDS

BKR_NP-LB-2 - MAIN
SWGR_NP-LB-2
BKR_NP-LB-2 - ATS XR
BKR_NP-LB-2 - ATS EQ1
BKR_NP-LB-2 - ATS CB2
CBL-0073
BKR_NP-LB-1 - NP-LB-2 [TIE]

CURRENT IN AMPERES

TCC Name: TCC_068a_SWGR_NP-LB-2_ph
Project #810133
Recommendation_NEW

Reference Voltage: 480V
Lowell General Hospital
Main Campus

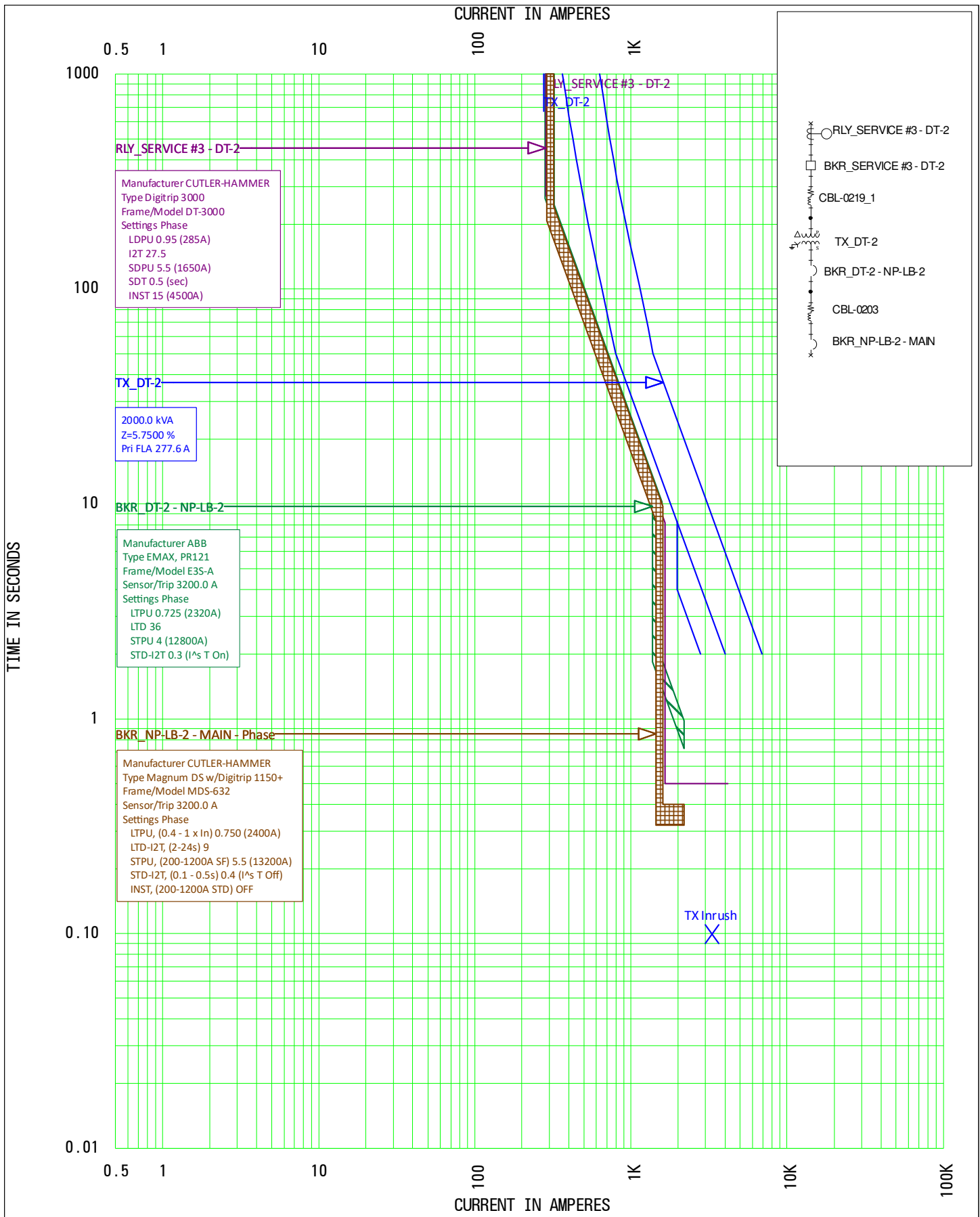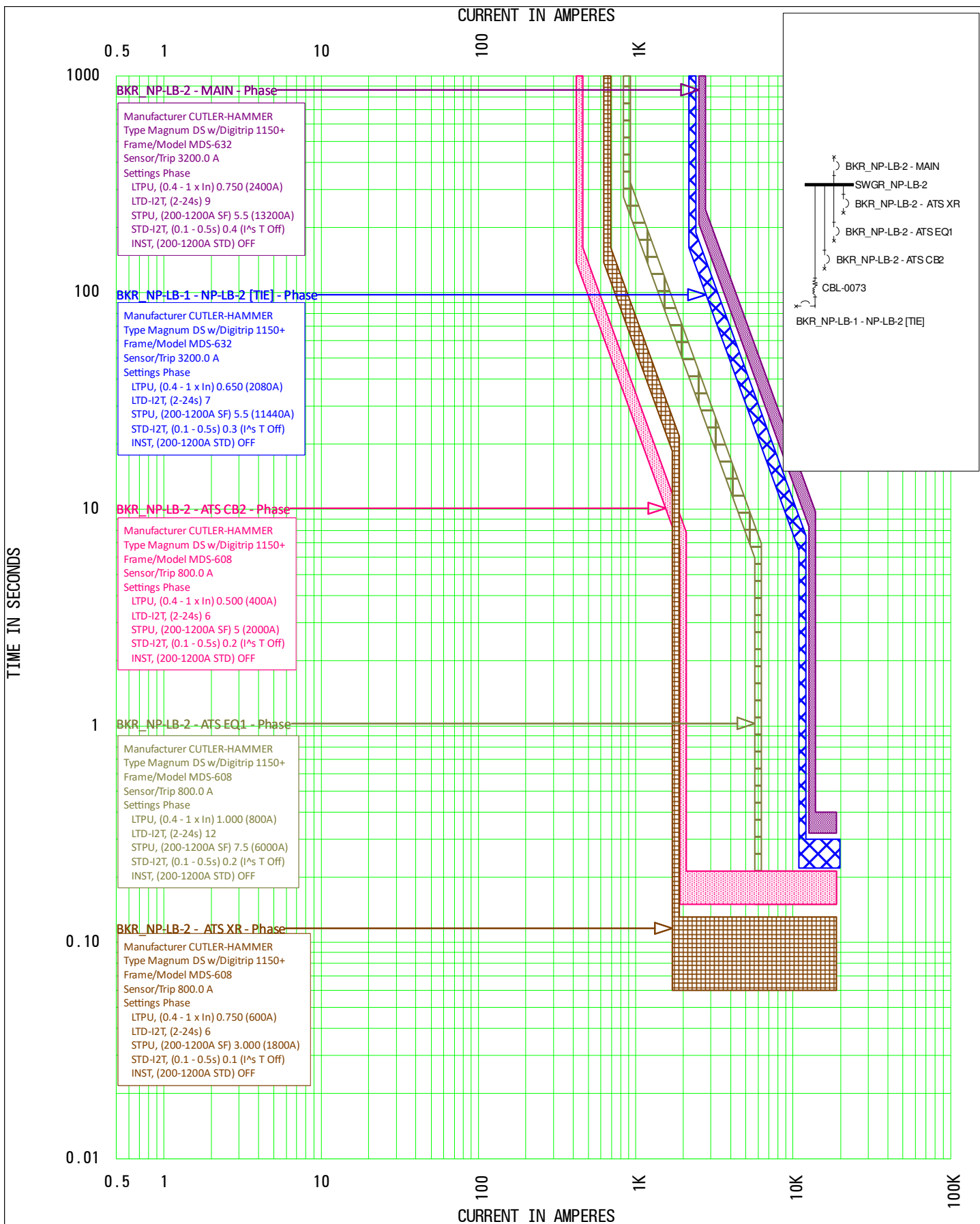Current Scale x 1

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

TIME IN SECONDS

BKR_NP-LB-2 - MAIN - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Neutral
  GFPU, (1150, 0.25 - 1) 0.32 (1024A)
  GFD, (0.1 - 0.5s) 0.4 (I^s T Off)

BKR_NP-LB-1 - NP-LB-2 [TIE] - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Neutral
  GFPU, (1150, 0.25 - 1) 0.25 (800A)
  GFD, (0.1 - 0.5s) 0.3 (I^s T Off)

BKR_NP-LB-2 - ATS CB2 - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Neutral
  GFPU, (1150, 0.25 - 1) 0.25 (200A)
  GFD, (0.1 - 0.5s) 0.2 (I^s T Off)

BKR_NP-LB-2 - ATS EQ1 - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Neutral
  GFPU, (1150, 0.25 - 1) 0.25 (200A)
  GFD, (0.1 - 0.5s) 0.2 (I^s T Off)

BKR_NP-LB-2 - ATS XR - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Neutral
  GFPU, (1150, 0.25 - 1) 0.25 (200A)
  GFD, (0.1 - 0.5s) 0.2 (I^s T Off)

CURRENT IN AMPERES

Legend:
BKR_NP-LB-2 - MAIN
SWGR_NP-LB-2
BKR_NP-LB-2 - ATS XR
BKR_NP-LB-2 - ATS EQ1
BKR_NP-LB-2 - ATS CB2
CBL-0073
BKR_NP-LB-1 - NP-LB-2 [TIE]

TCC Name: TCC_068b_SWGR_NP-LB-2_ne
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
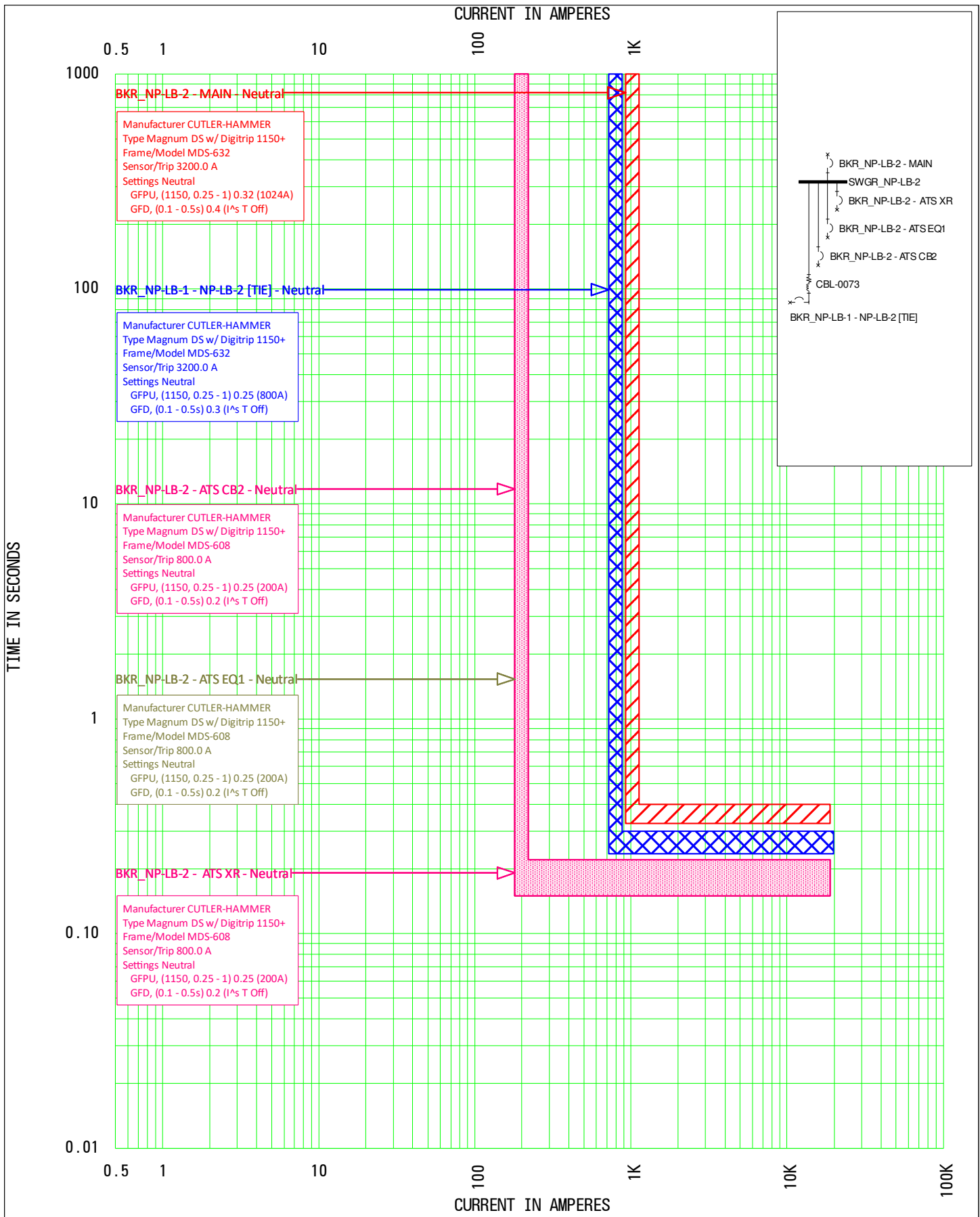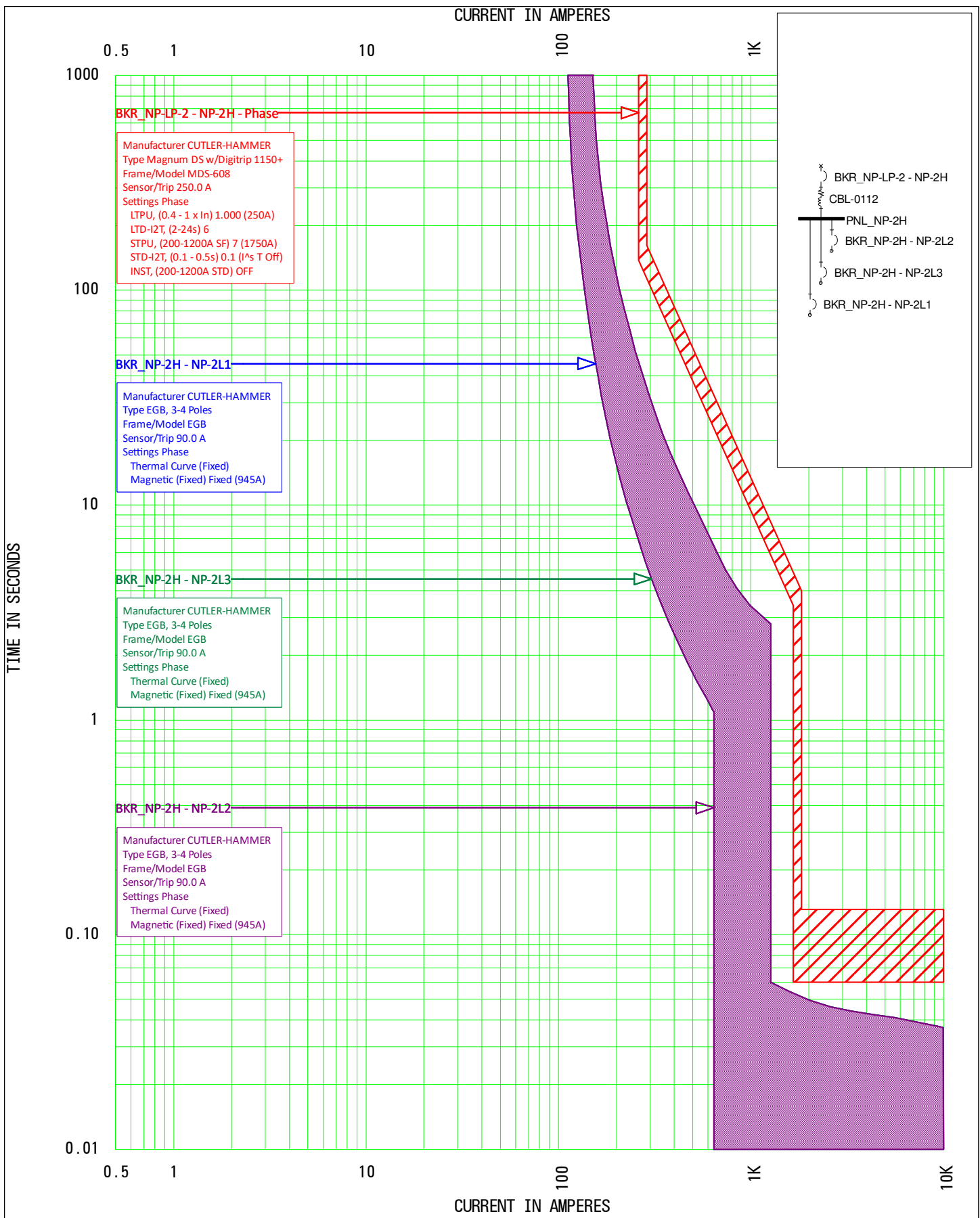Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LP-2 - NP-2H - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 250.0 A
Settings Phase
   LTPU, (0.4 - 1 x In) 1.000 (250A)
   LTD-I2T, (2-24s) 6
   STPU, (200-1200A SF) 7 (1750A)
   STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
   INST, (200-1200A STD) OFF

BKR_NP-2H - NP-2L1

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
   Thermal Curve (Fixed)
   Magnetic (Fixed) Fixed (945A)

BKR_NP-2H - NP-2L3

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
   Thermal Curve (Fixed)
   Magnetic (Fixed) Fixed (945A)

BKR_NP-2H - NP-2L2

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
   Thermal Curve (Fixed)
   Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

Single-line diagram:
- BKR_NP-LP-2 - NP-2H
- CBL-0112
- PNL_NP-2H
- BKR_NP-2H - NP-2L2
- BKR_NP-2H - NP-2L3
- BKR_NP-2H - NP-2L1

TCC Name: TCC_069_PNL_NP-2H
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LP-2 - NP-3H - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 250.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (250A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 7 (1750A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_NP-3H - NP-3L1

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_NP-3H - NP-3L2

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_NP-3H - NP-3L3

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_NP-LP-2 - NP-3H
CBL-0113
PNL_NP-3H
BKR_NP-3H - NP-3L3
BKR_NP-3H - NP-3L2
BKR_NP-3H - NP-3L1

TCC Name: TCC_070_PNL_NP-3H
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
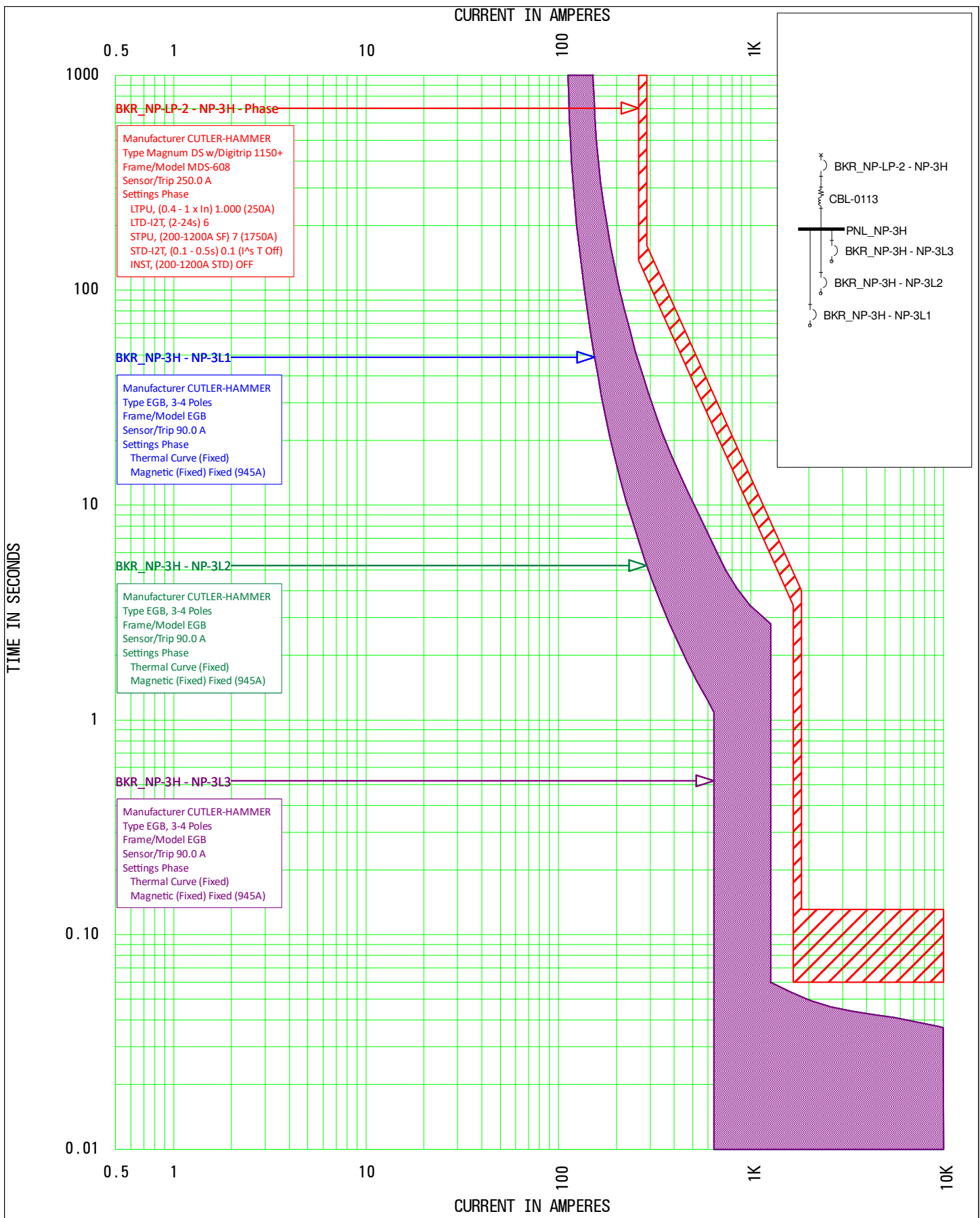Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LP-2 - NP-5H - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 250.0 A
Settings Phase
　LTPU, (0.4 - 1 x In) 1.000 (250A)
　LTD-I2T, (2-24s) 6
　STPU, (200-1200A SF) 7 (1750A)
　STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
　INST, (200-1200A STD) OFF

BKR_NP-5H - NP-5L1

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
　Thermal Curve (Fixed)
　Magnetic (Fixed) Fixed (945A)

BKR_NP-5H - NP-5L2

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
　Thermal Curve (Fixed)
　Magnetic (Fixed) Fixed (945A)

BKR_NP-5H - NP-5L3

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
　Thermal Curve (Fixed)
　Magnetic (Fixed) Fixed (945A)

BKR_NP-LP-2 - NP-5H
CBL-0114
PNL_NP-5H
BKR_NP-5H - NP-5L3
BKR_NP-5H - NP-5L2
BKR_NP-5H - NP-5L1

TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_071_PNL_NP-5H
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus
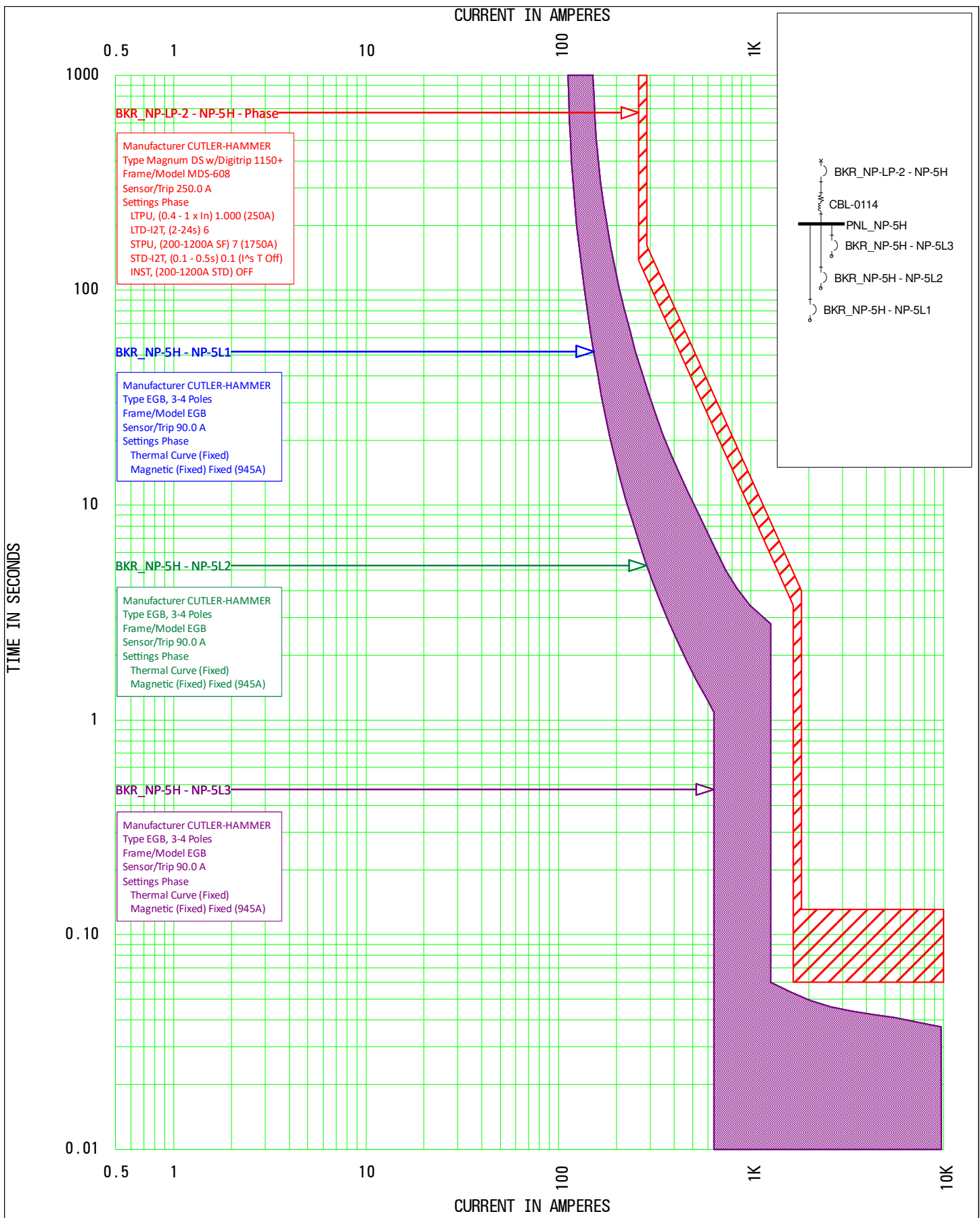
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_SERVICE #3 - PPSS3

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 0.55 (110A)
  I2T 9
  SDPU 3.5 (700A)
  SDT 0.2 (sec)
  INST NONE (19999800A)

TX_PPSS3

750.0 kVA
Z=5.6500 %
Pri FLA 104.1 A

BKR_PPSS3 - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-616
Sensor/Trip 1200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.750 (900A)
  LTD-I2T, (2-24s) 9.5
  STPU, (200-1200A SF) 6.5 (5850A)
  STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
  INST, (200-1200A STD) OFF

RLY_SERVICE #3 - PPSS3
TX_PPSS3

TX Inrush

TIME IN SECONDS

CURRENT IN AMPERES

RLY_SERVICE #3 - PPSS3
BKR_SERVICE #3 - PPSS3
CBL-0220_1
TX_PPSS3
BKR_PPSS3 - MAIN

TCC Name: TCC_072_TX_PPSS3
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
Main Campus
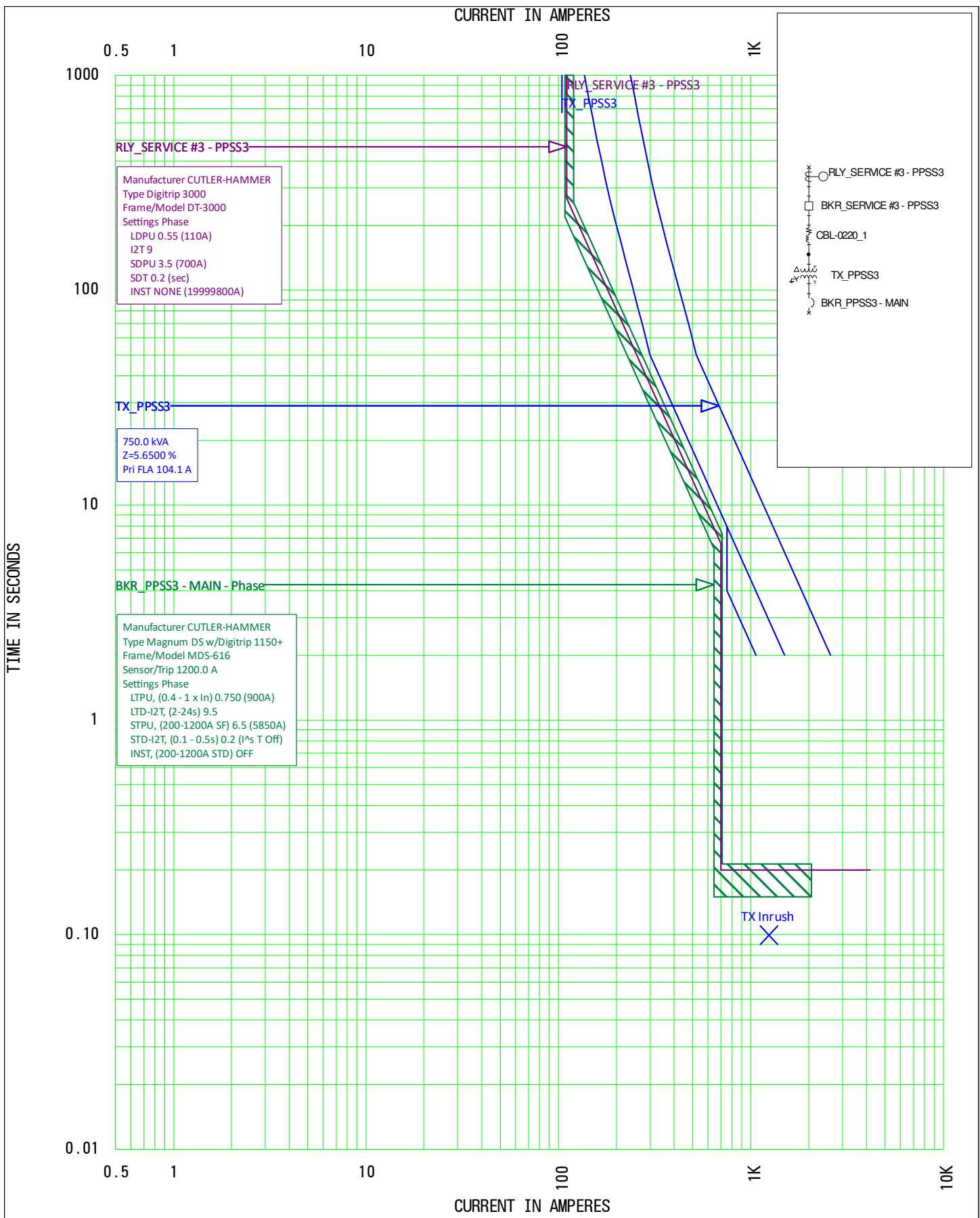
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_PPSS3 - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-616
Sensor/Trip 1200.0 A
Settings Phase
    LTPU, (0.4 - 1 x In) 0.750 (900A)
    LTD-I2T, (2-24s) 9.5
    STPU, (200-1200A SF) 6.5 (5850A)
    STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
    INST, (200-1200A STD) OFF

BKR_PPSS3 - VFD-9 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
    LTPU, (0.4 - 1 x In) 0.750 (600A)
    LTD-I2T, (2-24s) 3.5
    STPU, (200-1200A SF) 4.000 (2400A)
    STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
    INST, (200-1200A STD) 6.00 (4800A)

BKR_PPSS3 - VFD-8 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
    LTPU, (0.4 - 1 x In) 0.750 (600A)
    LTD-I2T, (2-24s) 3.5
    STPU, (200-1200A SF) 4.000 (2400A)
    STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
    INST, (200-1200A STD) 6.00 (4800A)

TIME IN SECONDS

BKR_PPSS3 - MAIN
SWBD_PPSS3
BKR_PPSS3 - VFD-8
BKR_PPSS3 - VFD-9

CURRENT IN AMPERES

TCC Name: TCC_073_SWBD_PPSS3
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

GEN_GEN1
RLY_GEN1 - EXISTING E GEAR

GEN_GEN1

CBL-0038

RLY_GEN1 - EXISTING E GEAR

BKR_GEN1 - EXISTING E GEAR

TIME IN SECONDS

GEN_GEN1

Voltage 4160 V
kVA 1875.0 kVA

RLY_GEN1 - EXISTING E GEAR - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
  Tap 4.0 (240A)
  Time Dial 1.0

CURRENT IN AMPERES

TCC Name: TCC_074_GEN_GEN1
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
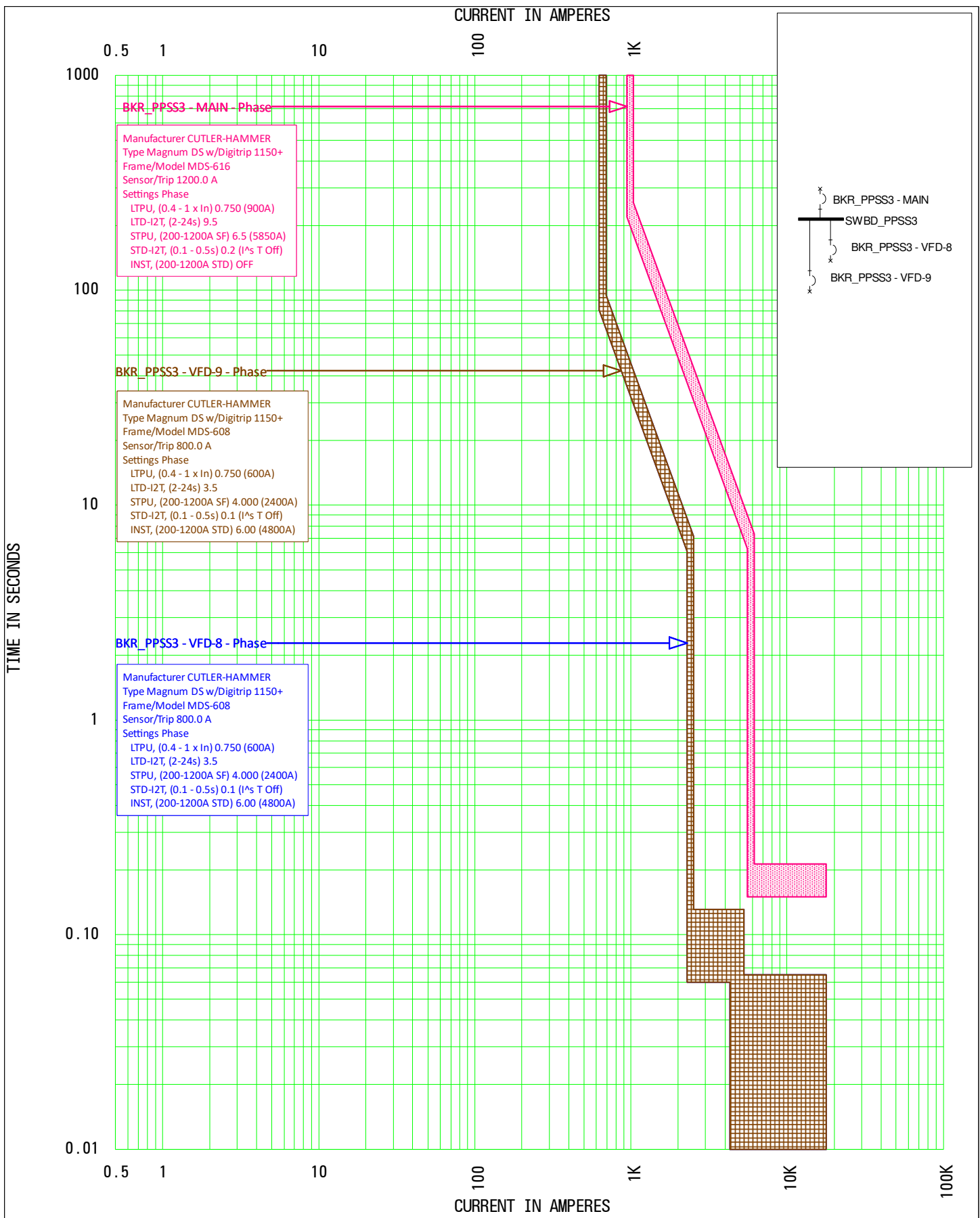Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

GEN_GEN2
RLY_GEN2 - EXISTING E GEAR

GEN_GEN2
CBL-0039
RLY_GEN2 - EXISTING E GEAR
BKR_GEN2 - EXISTING E GEAR

GEN_GEN2

Voltage 4160 V
kVA 1875.0 kVA

RLY_GEN2 - EXISTING E GEAR - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
Tap 4.0 (240A)
Time Dial 1.0

TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_075_GEN_GEN2
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

GEN_GEN3

Voltage 4160 V
kVA 1875.0 kVA

Gen SC

FU_DSC_GEN3

Manufacturer GOULD SHAWMUT
Type CS-3, 5.5kV E-Rated
Frame/Model CS-3, 450E
Sensor/Trip 450.0 A
Settings Phase
  450 Amps

TIME IN SECONDS

CURRENT IN AMPERES

GEN_GEN3

CBL-0040

DSC_GEN3

FU_DSC_GEN3

TCC Name: TCC_076_GEN_GEN3
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
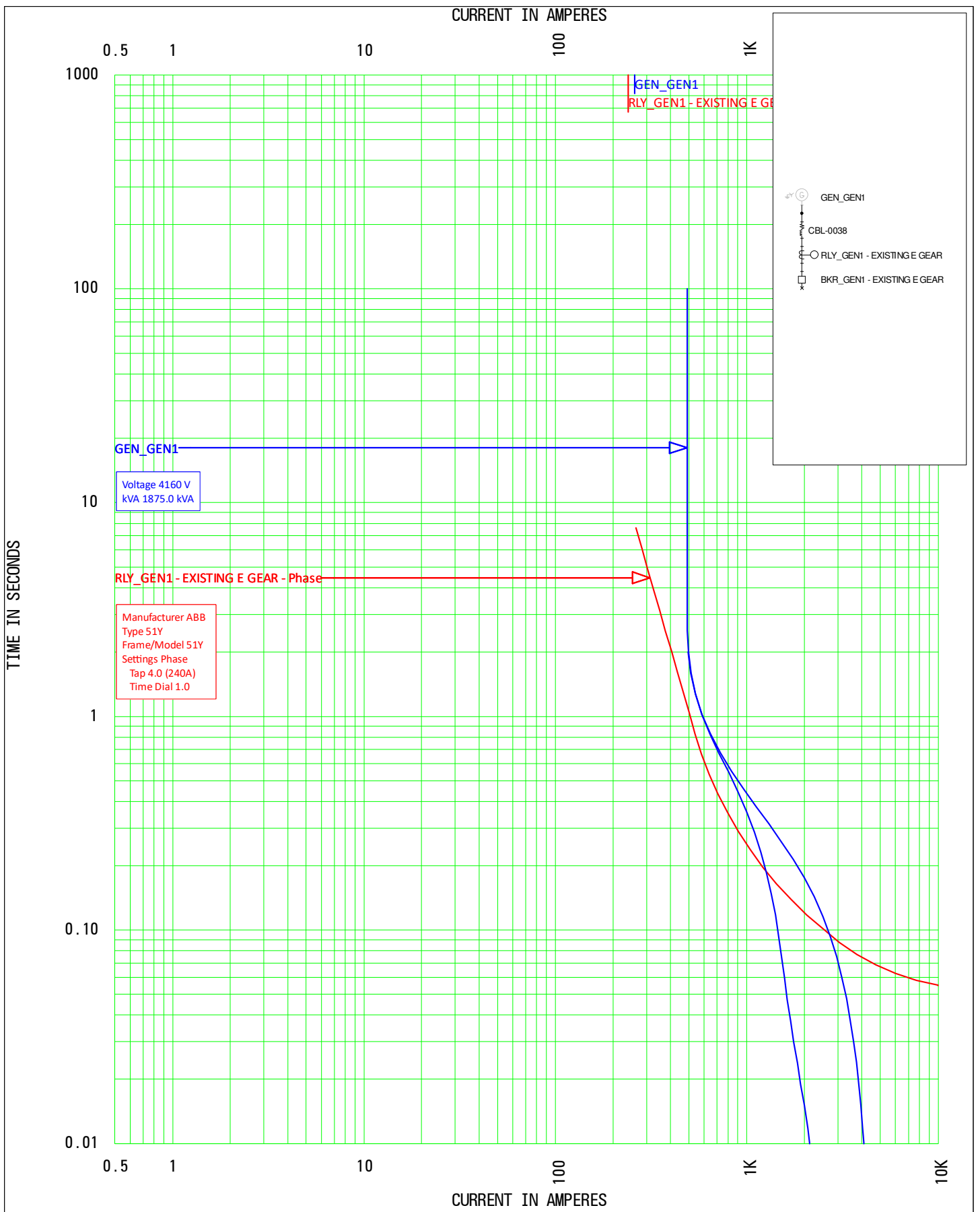Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

TIME IN SECONDS

GEN_GEN4

GEN_GEN4

Voltage 480 V
kVA 555.6 kVA

BKR_MDPE - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS, RMS 520
Frame/Model MDS-616
Sensor/Trip 1200.0 A
Settings Phase
  LTPU (0.4-1.0 x P) 0.7 (840A)
  LTD (2-24 Sec.) 20
  STPU (2-10 x LTPU) 4 (3360A)
  STD (0.1-0.5 Sec.) 0.4 (I^s T On)
  INST (2-14 x P) 6 (7200A)

Gen SC

GEN_GEN4

CBL-0225

BKR_MDPE - MAIN

CURRENT IN AMPERES

TCC Name: TCC_077_GEN_GEN4
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_GEN1 - EXISTING E GEAR - Phase

RLY_C-H ALT SW...
RLY_E GEAR - RMT B...
RLY_E GEAR - CANCER...
RLY_GEN3 - GEN 3 GEAR - ...
RLY_GEN2 - EXISTING E GE...
RLY_GEN1 - EXISTING E GE...

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
Tap 4.0 (240A)
Time Dial 1.0

RLY_GEN2 - EXISTING E GEAR - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
Tap 4.0 (240A)
Time Dial 1.0

RLY_GEN3 - GEN 3 GEAR - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
Tap 4.0 (240A)
Time Dial 1.0

RLY_C-H ALT SWBD[E] - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
Tap 4.0 (480A)
Time Dial 10.0

RLY_E GEAR - CANCER CENTER [A] - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
Tap 2.5 (300A)
Time Dial 3.0

RLY_E GEAR - RMT BLDG LD BKR - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
Tap 3.0 (360A)
Time Dial 1.0

RLY_GEN1 - EXISTING E GEAR
BKR_GEN1 - EXISTING E GEAR
RLY_GEN2 - EXISTING E GEAR
BKR_GEN2 - EXISTING E GEAR
RLY_GEN3 - GEN 3 GEAR
BKR_GEN3 - GEN 3 GEAR
SWGR_EXISTING E GEAR
RLY_E GEAR - RMT BLDG LD BKR
BKR_E GEAR - RMT BLDG LD BKR
RLY_E GEAR - CANCER CENTER [A]
BKR_E GEAR - CANCER CENTER [A]
RLY_C-H ALT SWBD[E]
BKR_C-H ALT SWBD[E]

TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_078_SWGR_EXISTING E GEAR
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
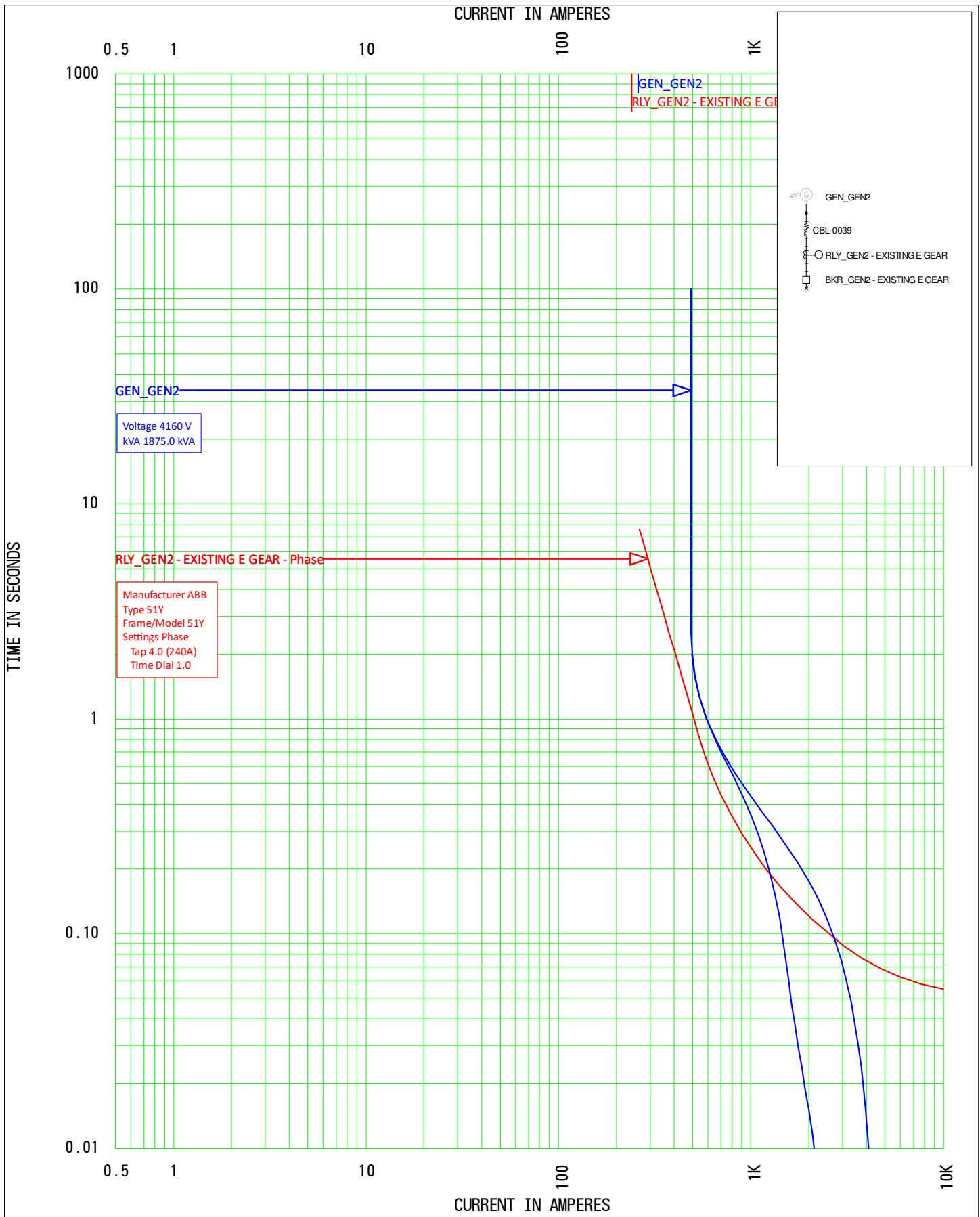Main Campus
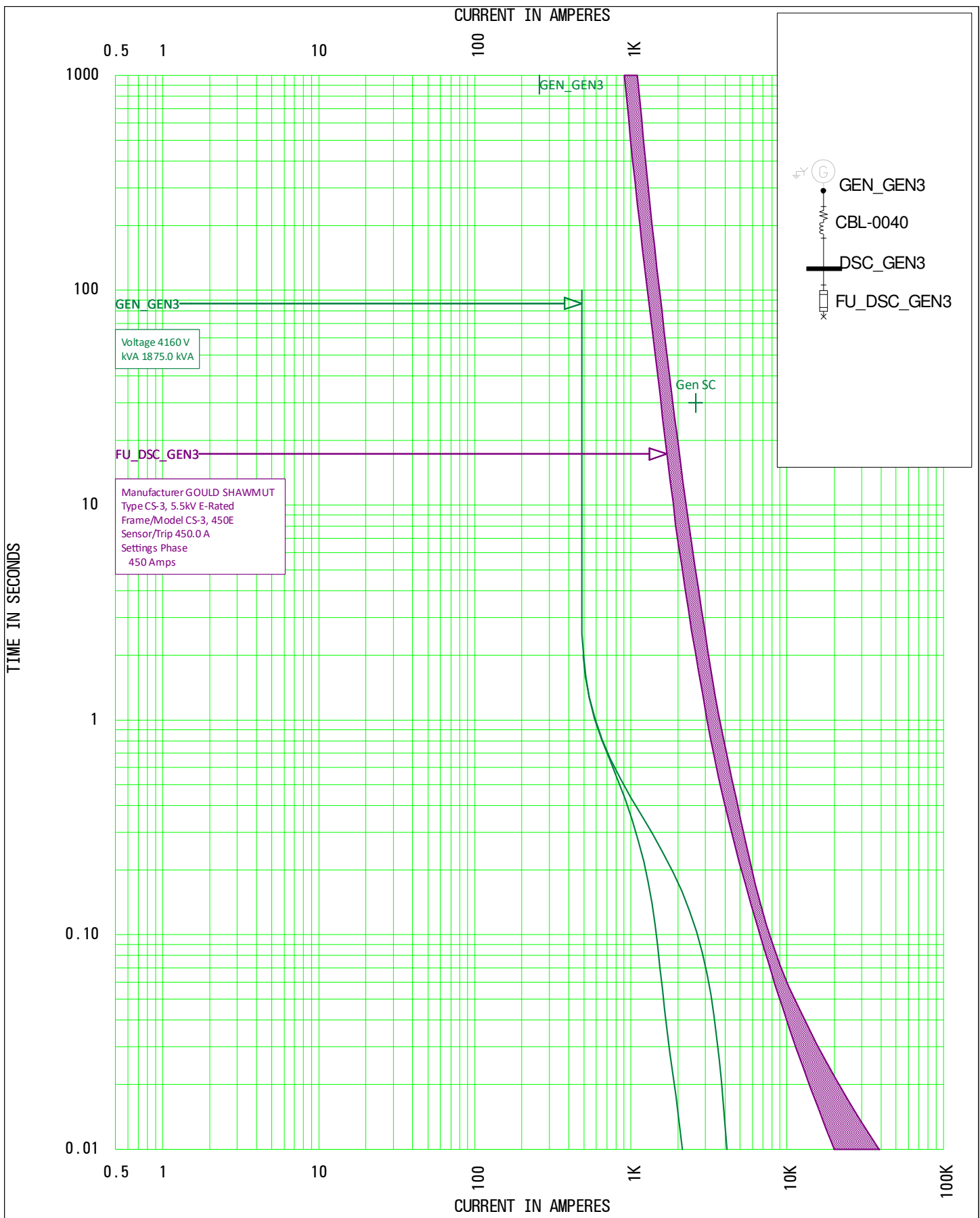
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_GEN1 - EXISTING E GEAR - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
Tap 4.0 (240A)
Time Dial 1.0

RLY_C-H PRF SW
RLY_GEN3 GEAR
RLY_GEN3 - GEN 3 GEAR -
RLY_GEN1 - EXISTING E GE
RLY_GEN2 - EXISTING E GE

RLY_GEN2 - EXISTING E GEAR - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
Tap 4.0 (240A)
Time Dial 1.0

RLY_GEN3 - GEN 3 GEAR - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
Tap 4.0 (240A)
Time Dial 1.0

RLY_C-H PRF SWBD[E] - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
Tap 4.0 (480A)
Time Dial 10.0

RLY_GEN3 GEAR - LOAD BANK - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
Tap 4.0 (480A)
Time Dial 1.0

TIME IN SECONDS

CURRENT IN AMPERES

RLY_GEN3 - GEN 3 GEAR
BKR_GEN3 - GEN 3 GEAR
RLY_GEN1 - EXISTING E GEAR
BKR_GEN1 - EXISTING E GEAR
RLY_GEN2 - EXISTING E GEAR
BKR_GEN2 - EXISTING E GEAR
SWGR_GEN-3 GEAR
RLY_GEN3 GEAR - LOAD BANK
BKR_GEN3 GEAR - LOAD BANK
RLY_C-H PRF SWBD[E]
BKR_C-H PRF SWBD[E]

TCC Name: TCC_079_SWGR_GEN-3 GEAR
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_E GEAR - CANCER

TX_U/S-2

RLY_E GEAR - CANCER CENTER [A] - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
  Tap 2.5 (300A)
  Time Dial 3.0

FU_DSC_U/S-2

Manufacturer CUTLER-HAMMER
Type RBA, RDB-200, 2.4-34.5kV E-Rated
Frame/Model RBA, RDB-200, 200E
Sensor/Trip 200.0 A
Settings Phase
  200.0 Amps

TX_U/S-2

750.0 kVA
Z=5.7200 %
Pri FLA 104.1 A

BKR_CANCER CENTER EMERG - MAIN

Manufacturer GE
Type TP & THP, MVT Plus/PM
Frame/Model TP
Sensor/Trip 1600.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 0.75 (900A)
  LTD (1-4) 2
  STPU (1.5-9 x LTPU) 6 (5400A)
  STD (Min-Max) Max (I^s T On)
  INST (1.5-15 x P) 13.5 (16200A)

TX Inrush

TIME IN SECONDS

CURRENT IN AMPERES

Single-line diagram labels:
- RLY_E GEAR - CANCER CENTER [A]
- BKR_E GEAR - CANCER CENTER [A]
- CBL-0036
- DSC_U/S-2
- FU_DSC_U/S-2
- TX_U/S-2
- CBL-0219
- BKR_CANCER CENTER EMERG - MAIN

TCC Name: TCC_080_TX_U/S-2
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
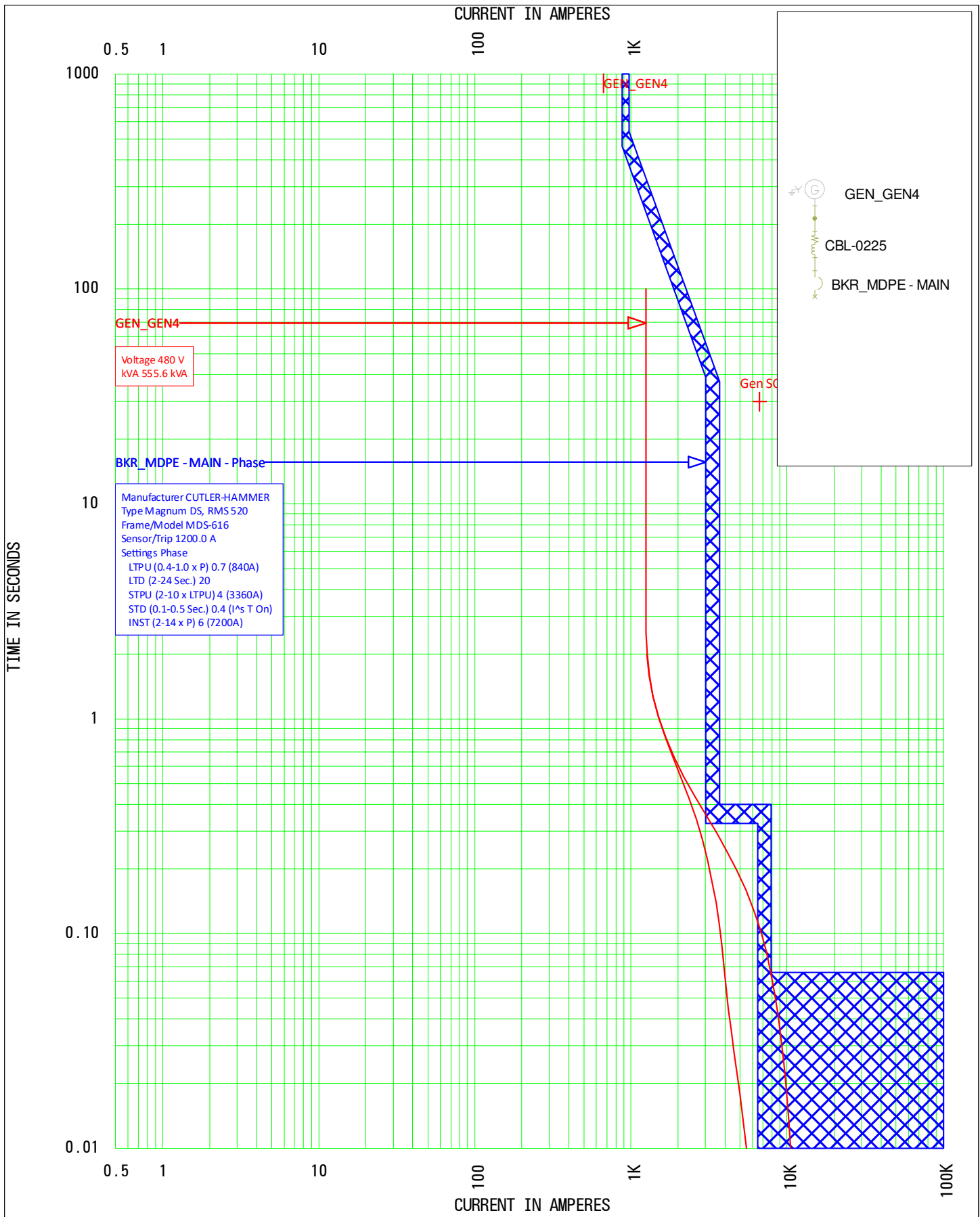Main Campus
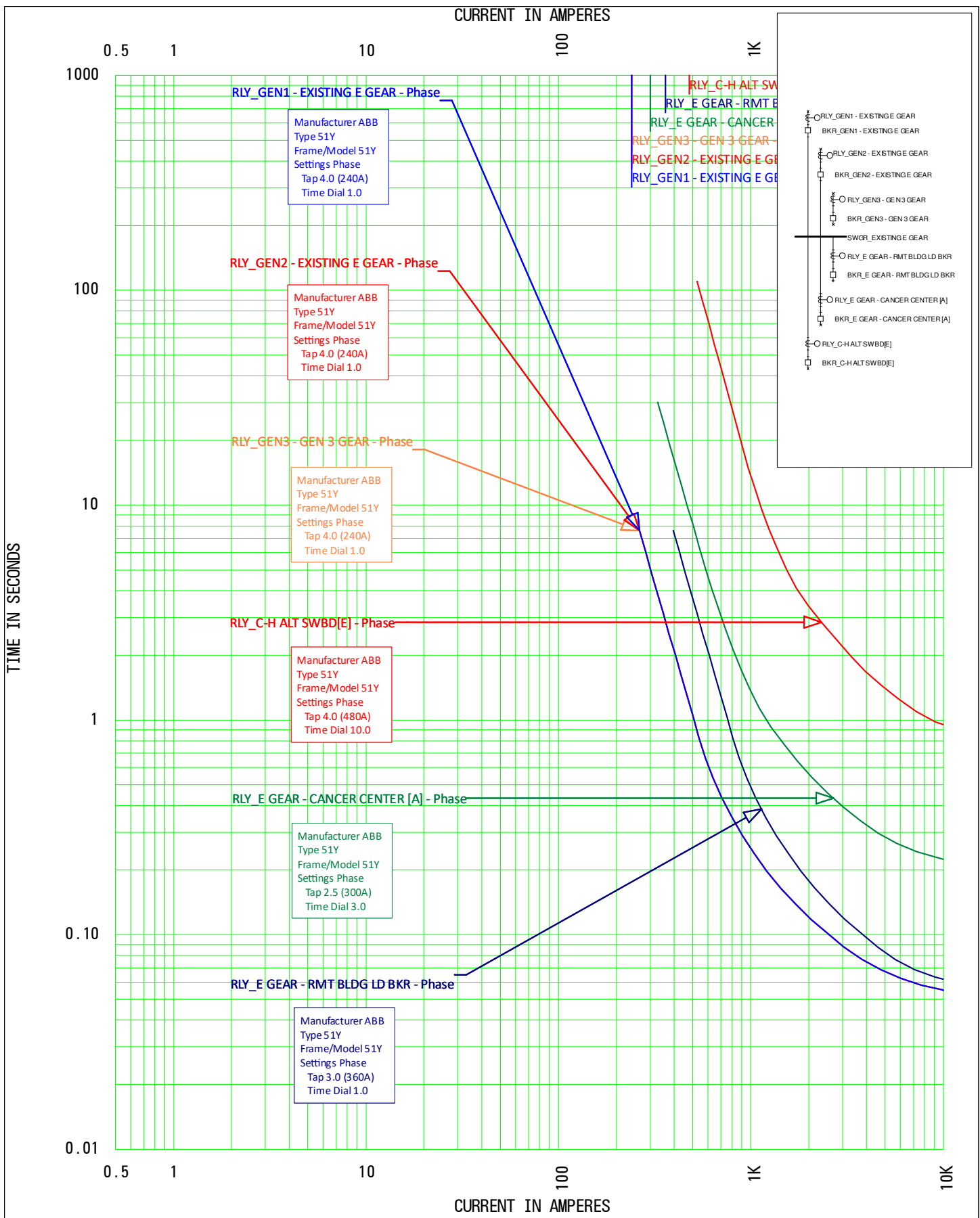
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_CANCER CENTER EMERG - MAIN

Manufacturer GE
Type TP & THP, MVT Plus/PM
Frame/Model TP
Sensor/Trip 1600.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 0.75 (900A)
  LTD (1-4) 2
  STPU (1.5-9 x LTPU) 6 (5400A)
  STD (Min-Max) Max (I^s T On)
  INST (1.5-15 x P) 13.5 (16200A)

BKR_CANCER CENTER - TIE

Manufacturer GE
Type TP & THP, MVT Plus/PM
Frame/Model TP
Sensor/Trip 1600.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 0.6 (720A)
  LTD (1-4) 2
  STPU (1.5-9 x LTPU) 5 (3600A)
  STD (Min-Max) Int (I^s T On)
  INST (1.5-15 x P) 10.5 (12600A)

BKR_CANCER CENTER - LS

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGHB
Sensor/Trip 150.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 1 (100A)
  LTD (1-3) 3
  STPU (1.5 -9 x LTPU) 9 (900A)
  STD (1-4) 3 (I^s T Off)
  INST (1.5-10 x P) 10 (1000A)

BKR_CANCER CENTER - CR

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGHB
Sensor/Trip 600.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 0.8 (320A)
  LTD (1-3) 3
  STPU (1.5 -9 x LTPU) 8.4 (2688A)
  STD (1-4) 2 (I^s T On)
  INST (1.5-10 x P) 10 (4000A)

BKR_CANCER CENTER - EQ

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGHB
Sensor/Trip 600.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 0.8 (320A)
  LTD (1-3) 3
  STPU (1.5 -9 x LTPU) 8 (2560A)
  STD (1-4) 4 (I^s T Off)
  INST (1.5-10 x P) 8 (3200A)

TIME IN SECONDS

CURRENT IN AMPERES

Open
BKR_CANCER CENTER - TIE
BKR_CANCER CENTER EMERG - MAIN
PNL_CANCER CENTER EMERG
CBL-0168
BKR_CANCER CENTER - EQ
BKR_CANCER CENTER - CR
BKR_CANCER CENTER - LS

TCC Name: TCC_081_PNL_CANCER CENTER EMERG
Project #810133
Recommendation_NEW   Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus
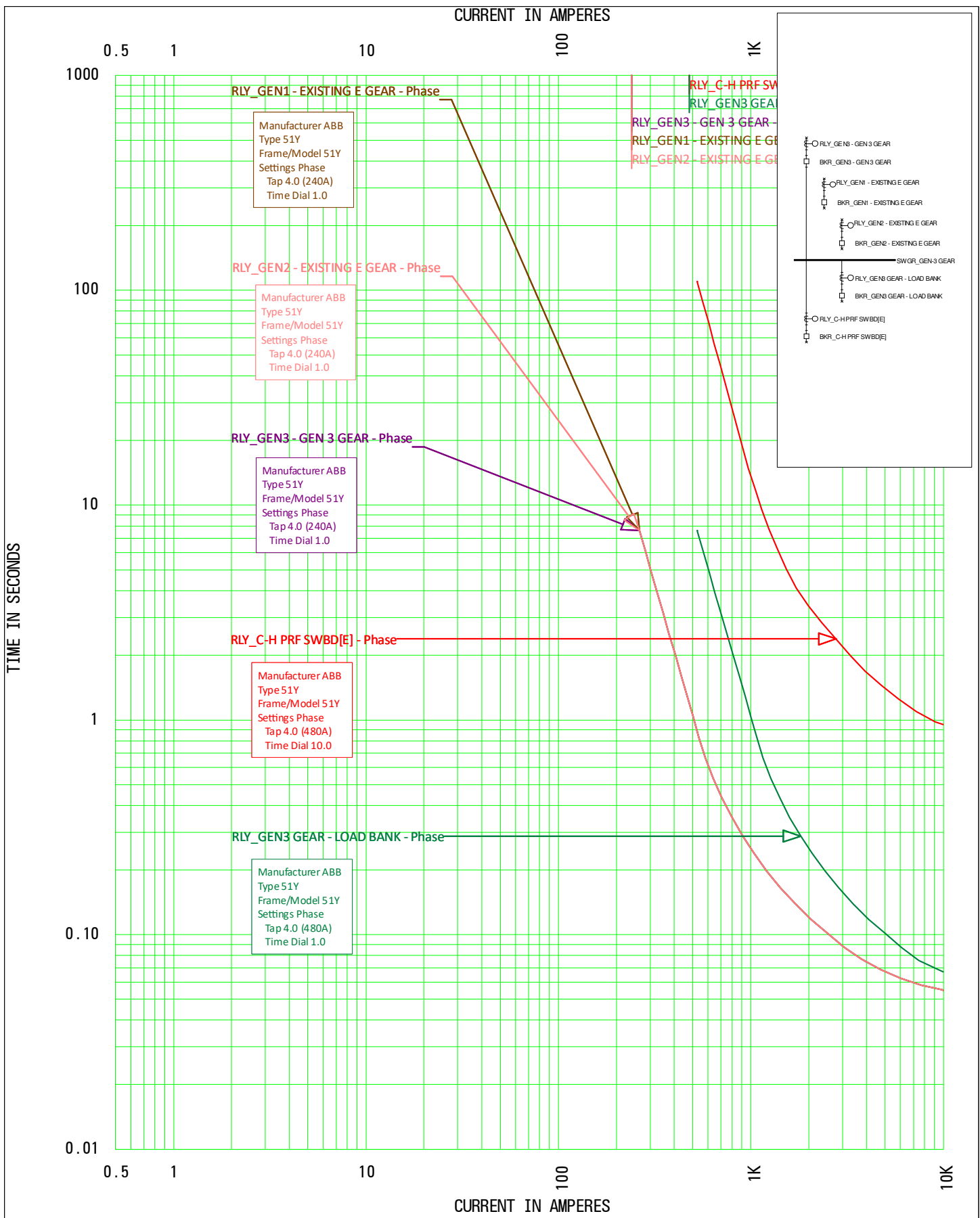
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_CANCER CENTER - ATS LS - Phase

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGHB
Sensor/Trip 150.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 1 (100A)
  LTD (1-3) 3
  STPU (1.5 -9 x LTPU) 9 (900A)
  STD (1-4) 3 (I^s T Off)
  INST (1.5-10 x P) 10 (1000A)

BKR_CANCER CENTER - LS

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGHB
Sensor/Trip 150.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 1 (100A)
  LTD (1-3) 3
  STPU (1.5 -9 x LTPU) 9 (900A)
  STD (1-4) 3 (I^s T Off)
  INST (1.5-10 x P) 10 (1000A)

BKR_DPLS - LLSG1

Manufacturer GE
Type THED
Frame/Model THED
Sensor/Trip 60.0 A
Settings Phase
  Fixed

BKR_DPLS - LLSS1

Manufacturer GE
Type THED
Frame/Model THED
Sensor/Trip 60.0 A
Settings Phase
  Fixed

BKR_DPLS - LLS21

Manufacturer GE
Type THED
Frame/Model THED
Sensor/Trip 60.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram labels:
- BKR_CANCER CENTER - ATS LS
- CBL-0158
- BKR_CANCER CENTER - LS
- CBL-0368
- _ATS_LS [CC]
- ATS_LS [CC]
- CBL-0183
- PNL_DPLS
- BKR_DPLS - LLS21
- BKR_DPLS - LLSS1
- BKR_DPLS - LLSG1

TCC Name: TCC_082_PNL_DPLS
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus
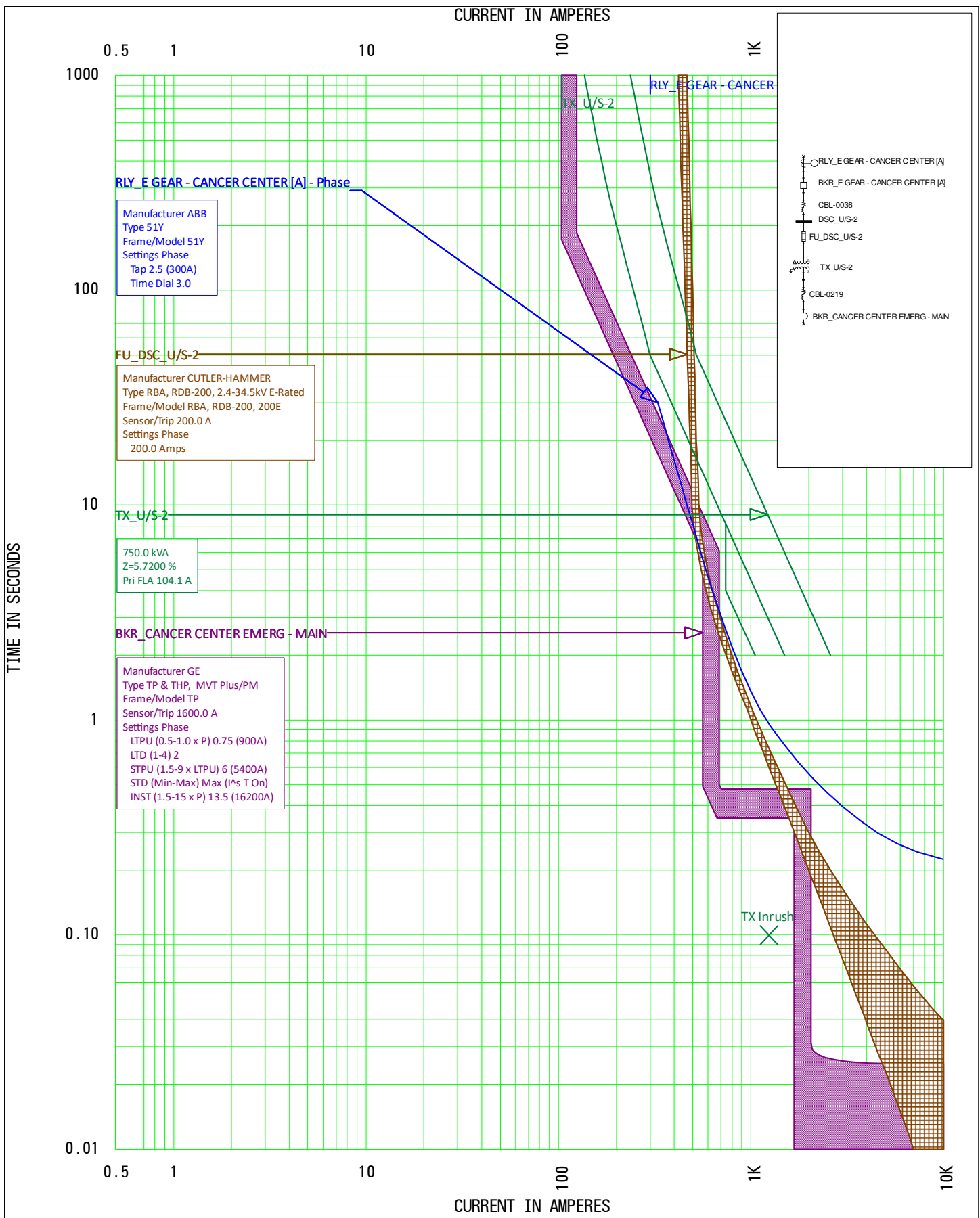
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_CANCER CENTER - ATS CR - Phase

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGHB
Sensor/Trip 600.0 A
Settings Phase
    LTPU (0.5-1.0 x P) 0.8 (320A)
    LTD (1-3) 3
    STPU (1.5 -9 x LTPU) 8.4 (2688A)
    STD (1-4) 2 (I^s T On)
    INST (1.5-10 x P) 10 (4000A)

BKR_CANCER CENTER - CR

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGHB
Sensor/Trip 600.0 A
Settings Phase
    LTPU (0.5-1.0 x P) 0.8 (320A)
    LTD (1-3) 3
    STPU (1.5 -9 x LTPU) 8.4 (2688A)
    STD (1-4) 2 (I^s T On)
    INST (1.5-10 x P) 10 (4000A)

BKR_DPCR - LCR11

Manufacturer GE
Type SFLA, Spectra RMS
Frame/Model SFLA
Sensor/Trip 200.0 A
Settings Phase
    MAX

BKR_DPCR - LCR21

Manufacturer GE
Type SFLA, Spectra RMS
Frame/Model SFLA
Sensor/Trip 200.0 A
Settings Phase
    MAX

BKR_DPCR - LCRG1

Manufacturer GE
Type SFLA, Spectra RMS
Frame/Model SFLA
Sensor/Trip 200.0 A
Settings Phase
    MAX

TIME IN SECONDS

CURRENT IN AMPERES

BKR_CANCER CENTER - ATS CR
CBL-0160
BKR_CANCER CENTER - CR
CBL-0369
_ATS_CR [CC]
ATS_CR [CC]
CBL-0174
PNL_DPCR
BKR_DPCR - LCRG1
BKR_DPCR - LCR21
BKR_DPCR - LCR11

TCC Name: TCC_083_PNL_DPCR
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus
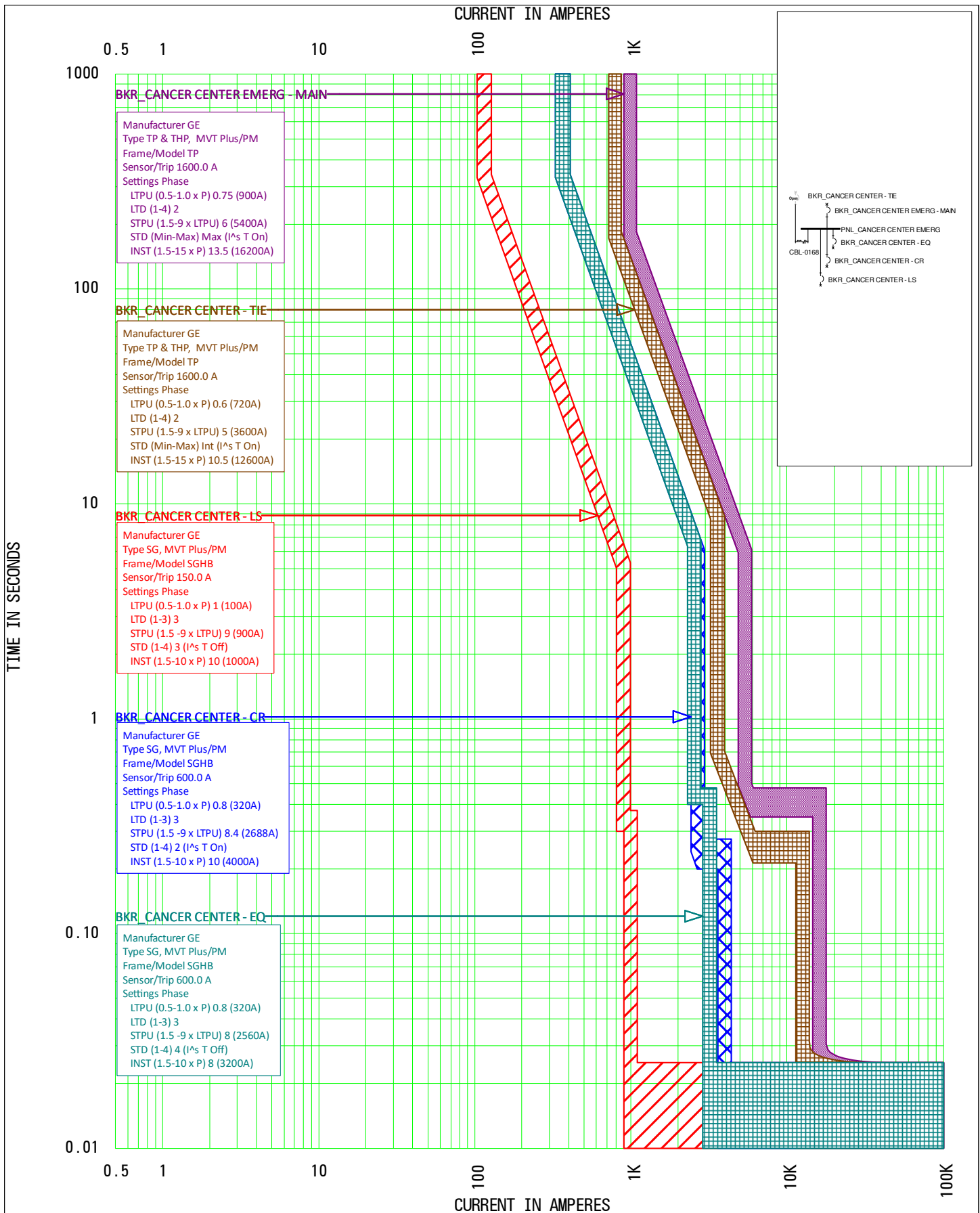
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPCR - LCR21

Manufacturer GE
Type SFLA, Spectra RMS
Frame/Model SFLA
Sensor/Trip 200.0 A
Settings Phase
  MAX

BKR_LCR21 - MAIN

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 200.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (4.5-10 x Trip) HI (2000A)

BKR_LCR21 - PCR21

Manufacturer GE
Type TEY, 2 & 3-Pole
Frame/Model TEY
Sensor/Trip 70.0 A
Settings Phase
  Fixed

BKR_LCR21 - PET/CT

Manufacturer GE
Type TEY, 2 & 3-Pole
Frame/Model TEY
Sensor/Trip 80.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

BKR_DPCR - LCR21
CBL-0176
BKR_LCR21 - MAIN
PNL_LCR21
BKR_LCR21 - PET/CT
BKR_LCR21 - PCR21

TCC Name: TCC_084_PNL_LCR21
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

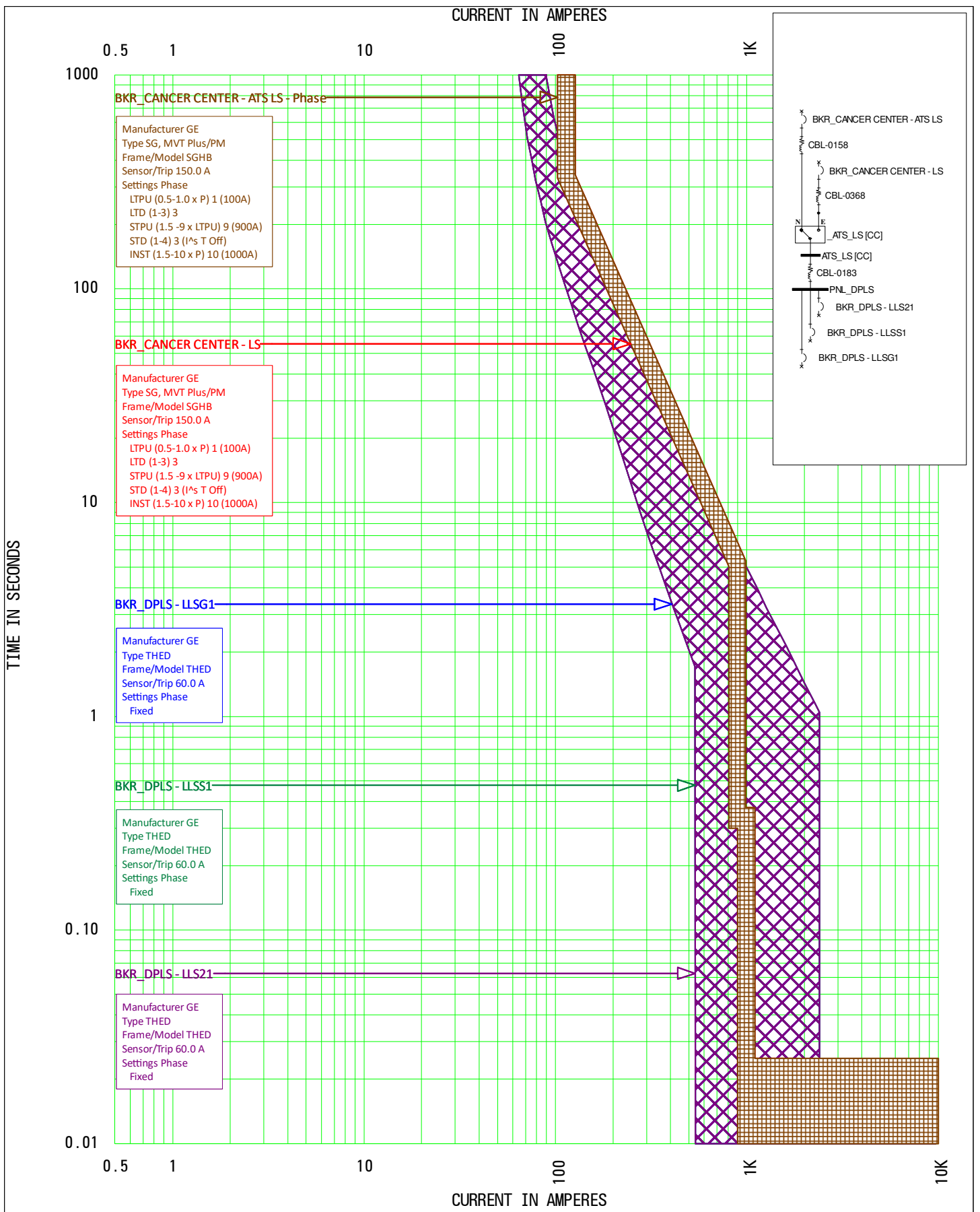**CE POWER**
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_CANCER CENTER - ATS EQ - Phase

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGHB
Sensor/Trip 600.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 0.8 (320A)
  LTD (1-3) 3
  STPU (1.5 -9 x LTPU) 8 (2560A)
  STD (1-4) 4 (I^s T Off)
  INST (1.5-10 x P) 8 (3200A)

BKR_CANCER CENTER - EQ

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGHB
Sensor/Trip 600.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 0.8 (320A)
  LTD (1-3) 3
  STPU (1.5 -9 x LTPU) 8 (2560A)
  STD (1-4) 4 (I^s T Off)
  INST (1.5-10 x P) 8 (3200A)

BKR_DPEQ - ELEV1

Manufacturer GE
Type SFHA, Spectra RMS
Frame/Model SFHA
Sensor/Trip 125.0 A
Settings Phase
  MAX

BKR_DPEQ - ELEV2

Manufacturer GE
Type SFHA, Spectra RMS
Frame/Model SFHA
Sensor/Trip 225.0 A
Settings Phase
  MAX

BKR_DPEQ - PEQG1

Manufacturer GE
Type THED
Frame/Model THED
Sensor/Trip 30.0 A
Settings Phase
  Fixed

BKR_DPEQ - EQPH

Manufacturer GE
Type SFHA, Spectra RMS
Frame/Model SFHA
Sensor/Trip 225.0 A
Settings Phase
  MAX

BKR_DPEQ - CP1

Manufacturer GE
Type THED
Frame/Model THED
Sensor/Trip 15.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram labels:
BKR_CANCER CENTER - ATS EQ
CBL-0159
BKR_CANCER CENTER - EQ
CBL-0370
ATS_EQ [CC]
ATS_EQ [CC]
CBL-0178
PNL_DPEQ
BKR_DPEQ - PEQG1
BKR_DPEQ - CP1
BKR_DPEQ - EQPH
BKR_DPEQ - ELEV2
BKR_DPEQ - ELEV1

TCC Name: TCC_085_PNL_DPEQ
Project #810133
Recommendation_NEW
Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus
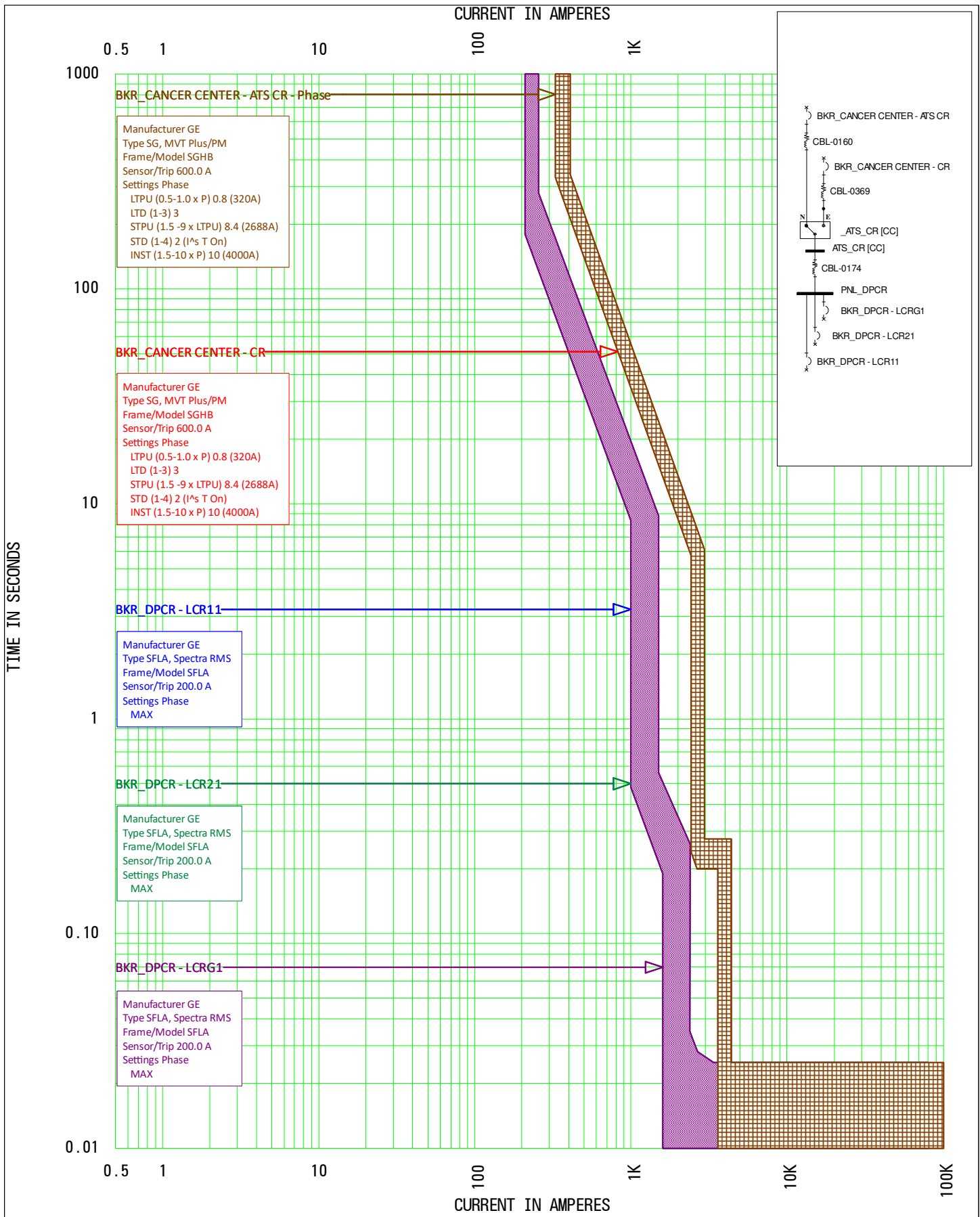
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_GEN3 GEAR - NEW "E" A SWBD - Pha
TX_EMERG-A [ET-1]

○ RLY_GEN3 GEAR - NEW "E" ASWBD

□ BKR_GEN3 GEAR - NEW "E" ASWBD

CBL-0030

TX_EMERG-A[ET-1]

BKR_XSB EMERG-A

CBL-0031

BKR_EMERG-A- MAN

RLY_GEN3 GEAR - NEW "E" A SWBD - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
  Tap 2.5 (300A)
  Time Dial 10.0

TX_EMERG-A [ET-1]

1500.0 kVA
Z=5.5100 %
Pri FLA 208.2 A

BKR_XSB EMERG-A - Phase

Manufacturer ABB
Type EMAX, PR122
Frame/Model E3S-A
Sensor/Trip 2000.0 A
Settings Phase
  LTPU 0.91 (1820A)
  LTD 30
  STPU 5.49 (10980A)
  STD-I2T 0.05 (I^s T Off)

BKR_EMERG-A - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.900 (1800A)
  LTD-I2T, (2-24s) 9
  STPU, (200-1200A SF) 6.000 (10800A)
  STD-I2T, (0.1 - 0.5s) 0.5 (I^s T Off)
  INST, (200-1200A STD) M1(14x) (28000A)

TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_086_TX_EMERG-A [ET-1]
Project #810133
Recommendation_NEW

Reference Voltage: 4160V
Lowell General Hospital
Main Campus

Current Scale x 1

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_EMERG-A - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.900 (1800A)
  LTD-I2T, (2-24s) 9
  STPU, (200-1200A SF) 6.000 (10800A)
  STD-I2T, (0.1 - 0.5s) 0.5 (I^s T Off)
  INST, (200-1200A STD) M1(14x) (28000A)

BKR_EMERG-TIE A-B - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.750 (1500A)
  LTD-I2T, (2-24s) 8
  STPU, (200-1200A SF) 6.000 (9000A)
  STD-I2T, (0.1 - 0.5s) 0.4 (I^s T Off)
  INST, (200-1200A STD) 11 (22000A)

BKR_EMERG A - BACKUP POWER - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.400 (320A)
  LTD-I2T, (2-24s) 3
  STPU, (200-1200A SF) 4.5 (1440A)
  STD-I2T, (0.1 - 0.5s) 0.5 (I^s T Off)
  INST, (200-1200A STD) 2.00 (1600A)

BKR_EMERG A - EQ1 ATS [DAHOD] - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (800A)
  LTD-I2T, (2-24s) 11.5
  STPU, (200-1200A SF) 7.5 (6000A)
  STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_EMERG A - DPE - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (800A)
  LTD-I2T, (2-24s) 2
  STPU, (200-1200A SF) 4.5 (3600A)
  STD-I2T, (0.1 - 0.5s) 0.3 (I^s T Off)
  INST, (200-1200A STD) 5.00 (4000A)

BKR_EMERG-A - MAIN
SWGR_EMERG-A [SW#1]
BKR_EMERG-TIE A-B
BKR_EMERG A - DPE
BKR_EMERG A - EQ1 ATS [DAHOD]
BKR_EMERG A - BACKUP POWER

TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_087a_SWGR_EMERG-A [SW#1]_ph
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
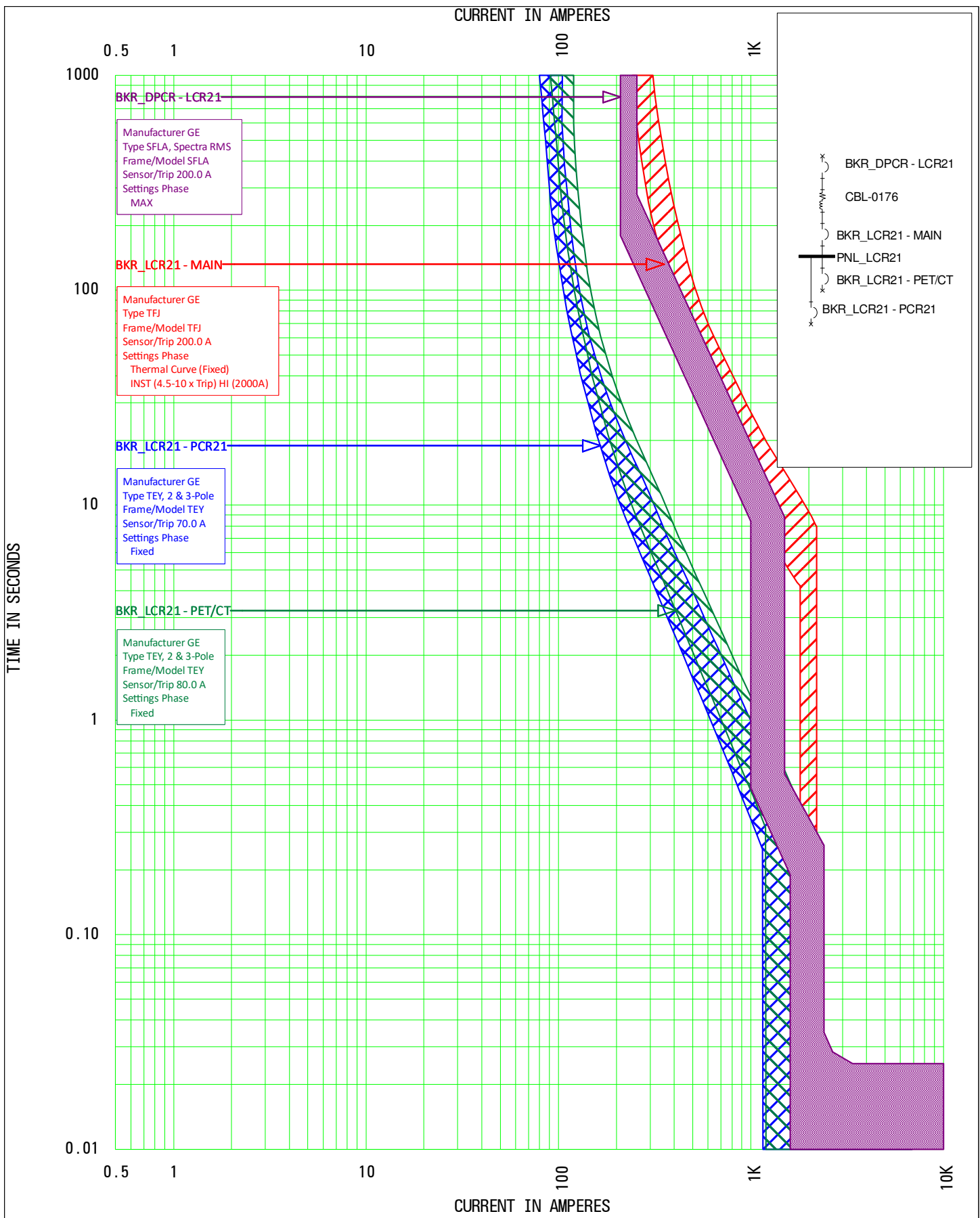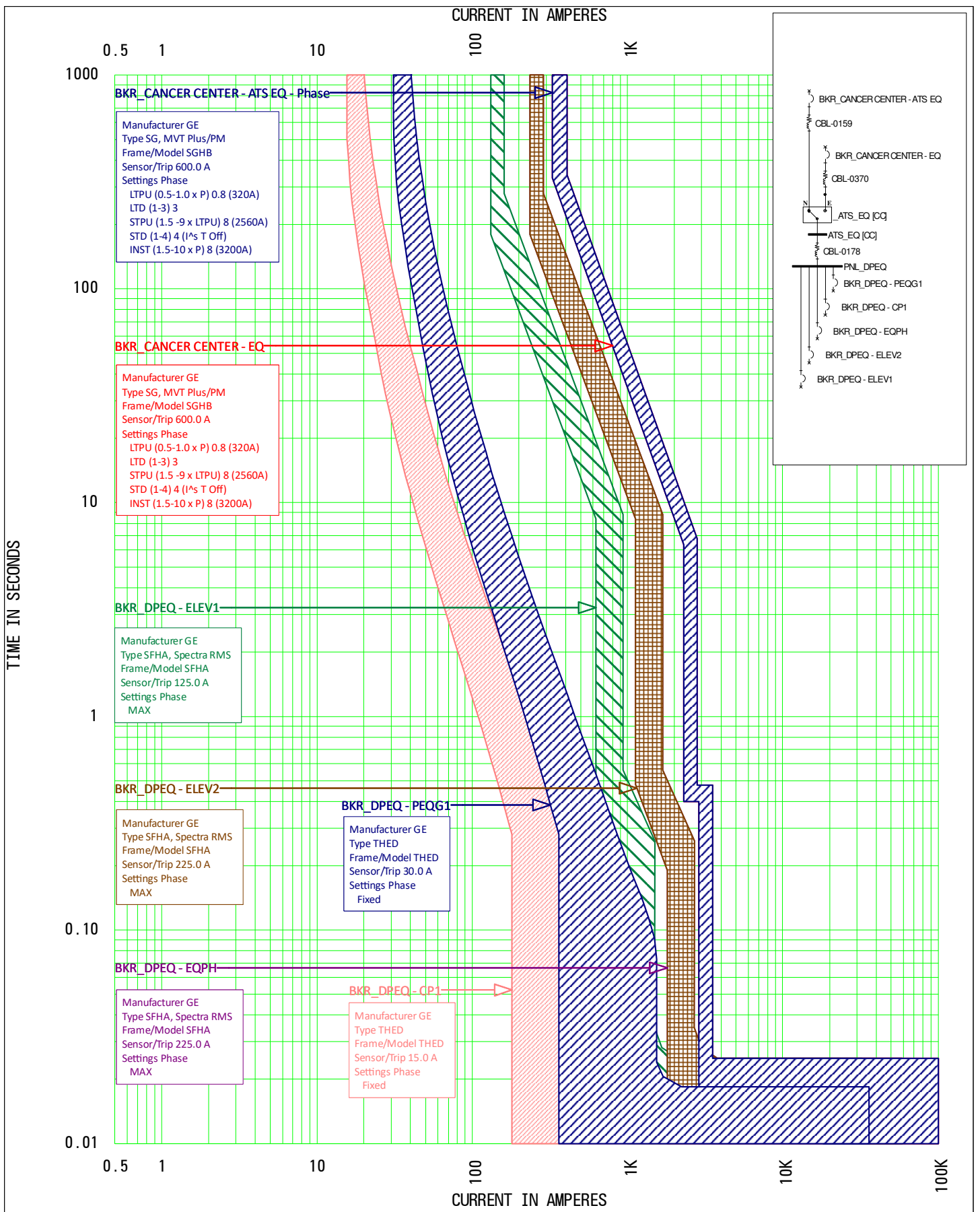Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_EMERG-A - MAIN - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Neutral
  GFPU, (1150, 0.25 - 1) 0.32 (640A)

BKR_EMERG-TIE A-B - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Neutral
  GFPU, (1150, 0.25 - 1) 0.25 (500A)

BKR_EMERG A - BACKUP POWER - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Neutral
  GFPU, (1150i, 0.1 - 1) 0.4 (320A)
  GFD, (0.1 - 0.5s) 0.5 (I^s T Off)

BKR_EMERG A - EQ1 ATS [DAHOD] - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Neutral
  GFPU, (1150, 0.25 - 1) 0.25 (200A)

BKR_EMERG A - DPE - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Neutral
  GFPU, (1150, 0.25 - 1) 0.4 (320A)
  GFD, (0.1 - 0.5s) 0.3 (I^s T Off)

TIME IN SECONDS

BKR_EMERG-A - MAIN
SWGR_EMERG-A [SW#1]
BKR_EMERG-TIE A-B
BKR_EMERG A - DPE
BKR_EMERG A - EQ1 ATS [DAHOD]
BKR_EMERG A - BACKUP POWER

CURRENT IN AMPERES

TCC Name: TCC_087b_SWGR_EMERG-A [SW#1]_ne
Project #810133
Recommendation_NEW   Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

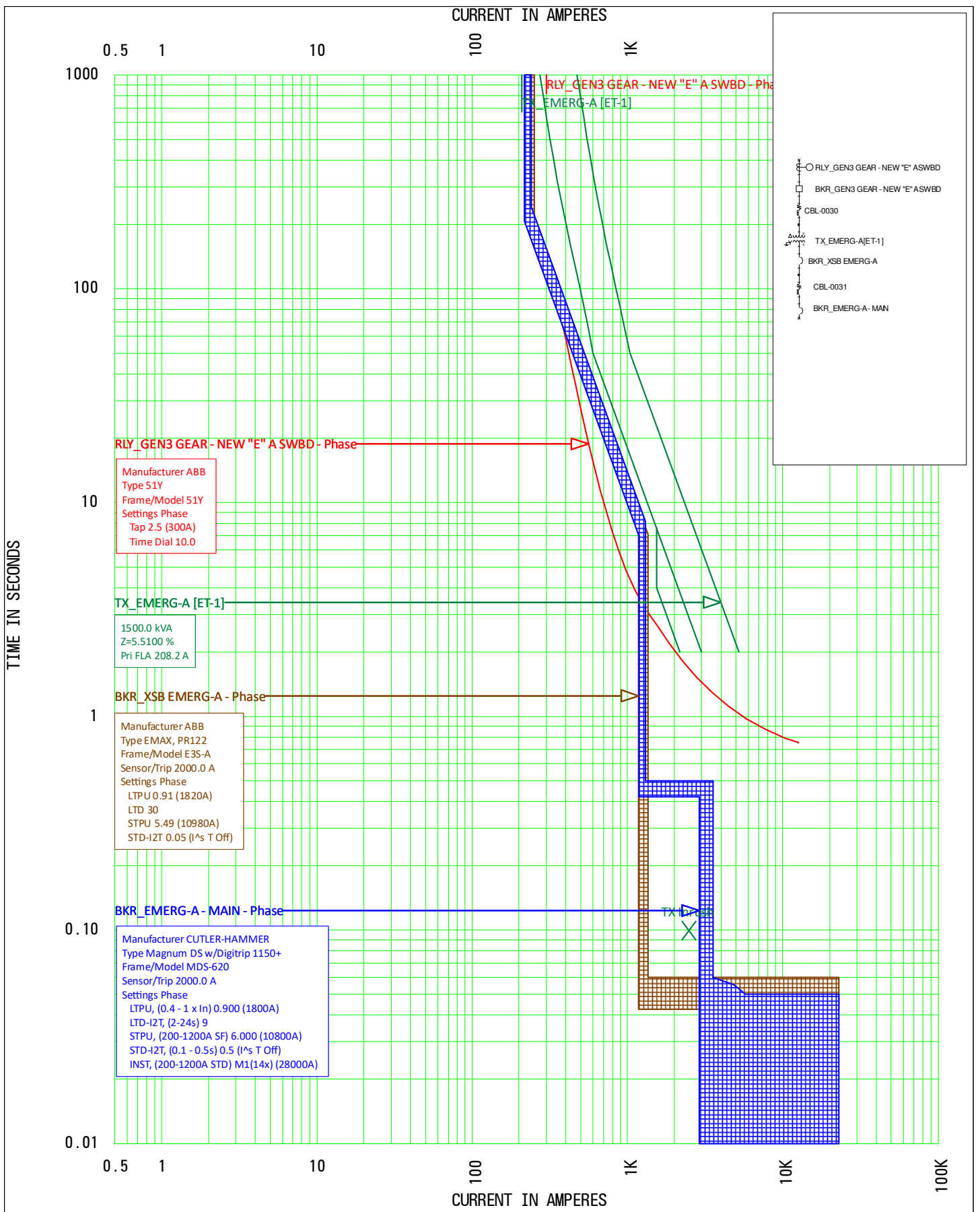**CE POWER**
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_EMERG A - BACKUP POWER - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.400 (320A)
  LTD-I2T, (2-24s) 3
  STPU, (200-1200A SF) 4.5 (1440A)
  STD-I2T, (0.1 - 0.5s) 0.5 (I^s T Off)
  INST, (200-1200A STD) 2.00 (1600A)

TX_BACKUP MED SURGE TX#1

150.0 kVA
Z=6.0000 %
Pri FLA 180.4 A

FU_DSC_BACKUP MED SURGE DSC#1

Manufacturer LITTELFUSE
Type FLNR, 250V Class RK5
Frame/Model FLNR
Sensor/Trip 350.0 A

BKR_DSC_MED SURGE [E]

Manufacturer GE
Type TJJ
Frame/Model TJJ
Sensor/Trip 350.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (3-10 x Trip) HI (3500A)

TX Inrush

TX_BACKUP MED SURGE TX#1

Single-line diagram labels
- BKR_EMERG A - BACKUP POWER
- CBL-0196
- TX_BACKUP MED SURGE TX#1
- CBL-0396
- DSC_BACKUP MED SURGE DSC#1
- FU_DSC_BACKUP MED SURGE DSC#1
- CBL-0397
- BKR_DSC_MED SURGE [E]

CURRENT IN AMPERES

TIME IN SECONDS

TCC Name: TCC_089_TX_BACKUP MED SURGE TX#1
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
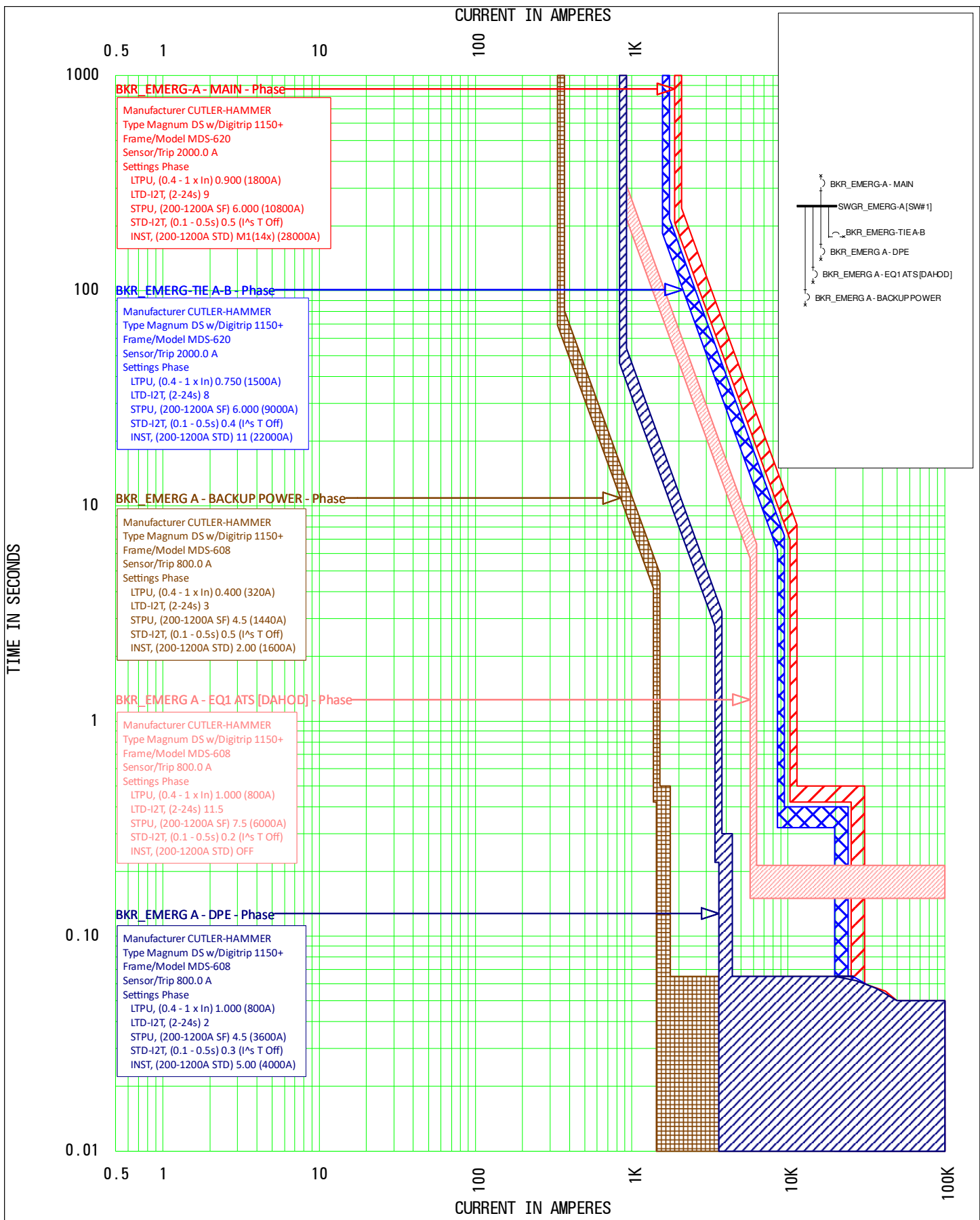Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_EMERG A - EQ1 ATS [DAHOD] - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (800A)
  LTD-I2T, (2-24s) 11.5
  STPU, (200-1200A SF) 7.5 (6000A)
  STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_NP-LB-2 - ATS EQ1 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (800A)
  LTD-I2T, (2-24s) 12
  STPU, (200-1200A SF) 7.5 (6000A)
  STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_DPEEQ1 - EQSL

Manufacturer CUTLER-HAMMER
Type KD, RMS 310
Frame/Model KD
Sensor/Trip 250.0 A
Settings Phase
  LTPU (1.0 x P) Fixed (150A)
  LTD (Fixed) Fixed
  STPU (2-8 x P) 8 (1200A)
  STD (Inst-300 ms) 200 ms (I^s T Off)
  INST (4000A) Fixed (4000A)

BKR_DPEEQ1 - EQBH1

Manufacturer CUTLER-HAMMER
Type MDL, RMS 310 (06/07)
Frame/Model MDL
Sensor/Trip 800.0 A
Settings Phase
  Plug Adj (400-800A) 600A (600A)
  LTD (Fixed) Fixed
  STPU (2-8 x LTPU) 8 (4800A)
  STD (Inst-300 ms) 100 ms (I^s T Off)
  INST (6800A) Fixed (6800A)

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram labels:
- BKR_NP-LB-2 - ATS EQ1
- CBL-0201
- BKR_EMERG A - EQ1 ATS [DAHOD]
- CBL-0292
- ATS_EQ1
- ATS_EQ1 [D-ATS]
- CBL-0304
- PNL_DPEEQ1
- BKR_DPEEQ1 - EQBH1
- BKR_DPEEQ1 - EQSL

TCC Name: TCC_090_PNL_DPEEQ1
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

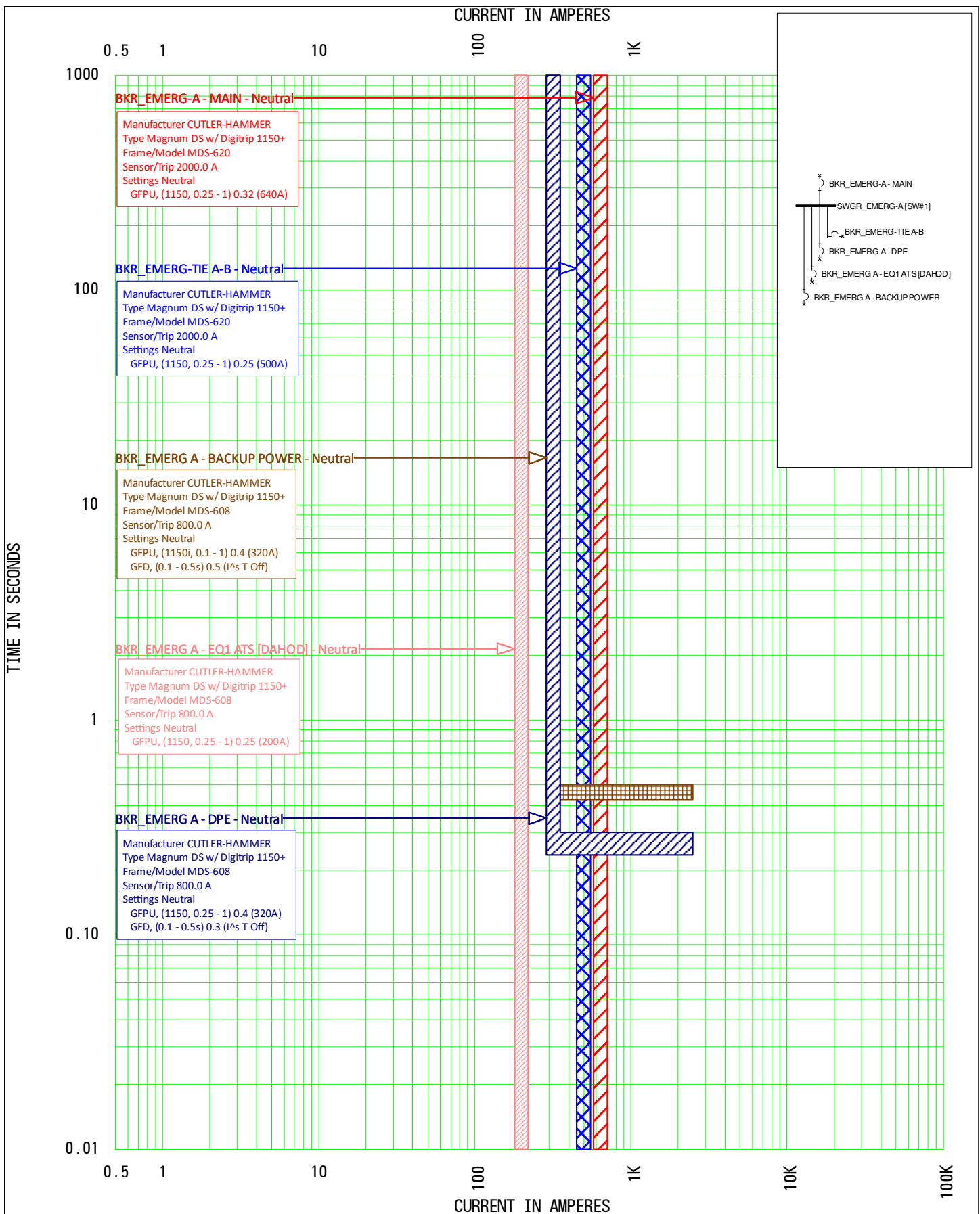CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_EMERG A - DPE - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (800A)
  LTD-I2T, (2-24s) 2
  STPU, (200-1200A SF) 4.5 (3600A)
  STD-I2T, (0.1 - 0.5s) 0.3 (I^s T Off)
  INST, (200-1200A STD) 5.00 (4000A)

BKR_DPE - TX MECH RM BACKUP

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 150.0 A
Settings Phase
  Fixed

BKR_DPE - CRH ATS1

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 225.0 A
Settings Phase
  Fixed

BKR_DPE - CRD ATS2

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 225.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

BKR_EMERG A - DPE
CBL-0293
PNL_DPE
BKR_DPE - CRD ATS2
BKR_DPE - CRH ATS1
BKR_DPE - TX MECH RM BACKUP

TCC Name: TCC_091_PNL_DPE
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus
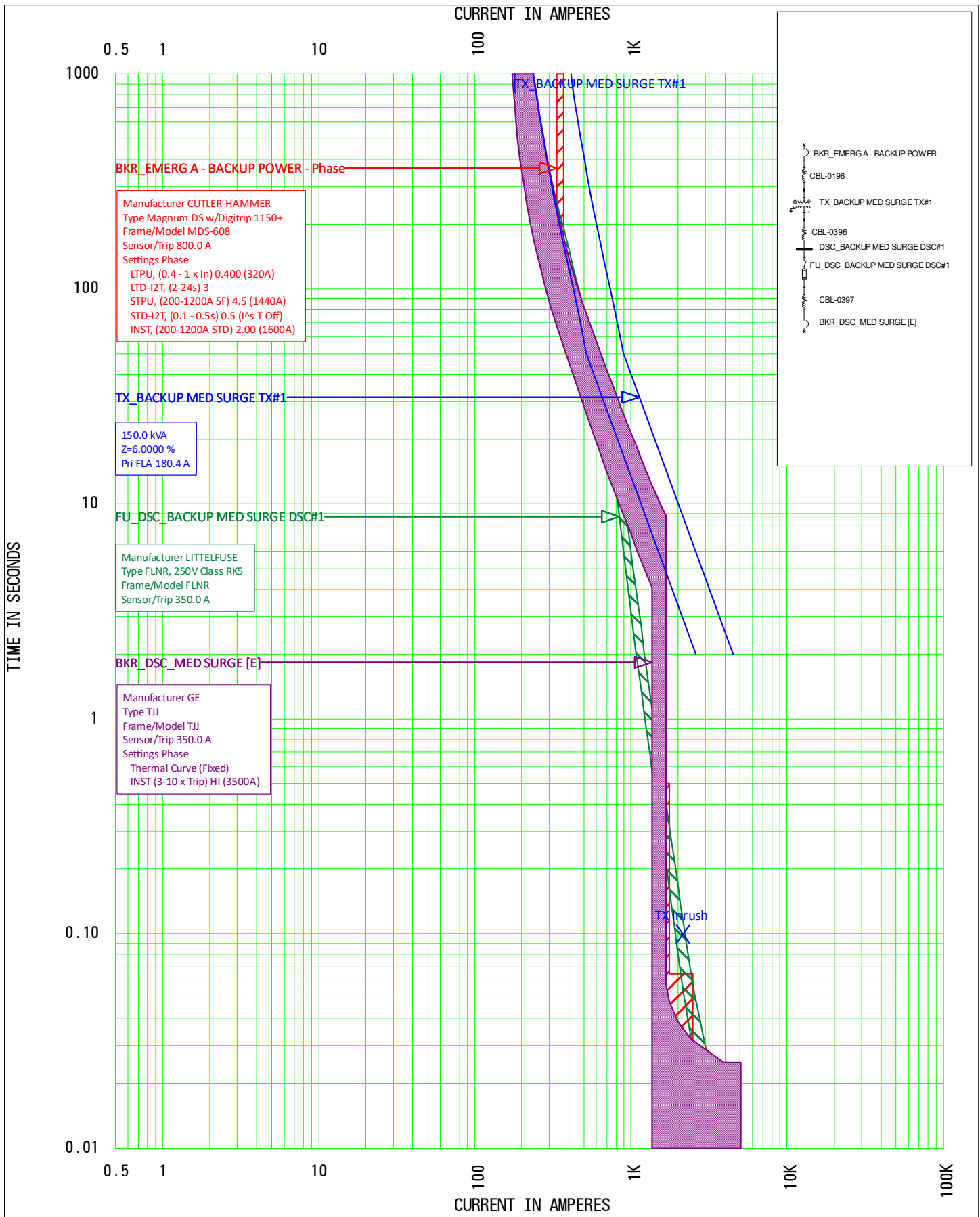
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_GEN3 GEAR - NEW "E" B SWBD - Phase
BKR_EMERG-B [ET-2]

Legend:
- ○ RLY_GEN3 GEAR - NEW "E" B SWBD
- □ BKR_GEN3 GEAR - NEW "E" B SWBD
- CBL-0028
- TX_EMERG-B [ET-2]
- BKR_XSB EMERG-B
- CBL-0029
- BKR_EMERG-B - MAIN

RLY_GEN3 GEAR - NEW "E" B SWBD - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
  Tap 2.5 (300A)
  Time Dial 10.0

TX_EMERG-B [ET-2]

1500.0 kVA
Z=5.5900 %
Pri FLA 208.2 A

BKR_XSB EMERG-B - Phase

Manufacturer ABB
Type EMAX, PR122
Frame/Model E3S-A
Sensor/Trip 2000.0 A
Settings Phase
  LTPU 0.84 (1680A)
  LTD 36
  STPU 5.53 (11060A)
  STD-I2T 0.05 (I^s T Off)

BKR_EMERG-B - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.900 (1800A)
  LTD-I2T, (2-24s) 9.5
  STPU, (200-1200A SF) 6.000 (10800A)
  STD-I2T, (0.1 - 0.5s) 0.5 (I^s T Off)
  INST, (200-1200A STD) M1(14x) (28000A)

CURRENT IN AMPERES

TCC Name: TCC_092_TX_EMERG-B [ET-2]
Project #810133
Recommendation_NEW
Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
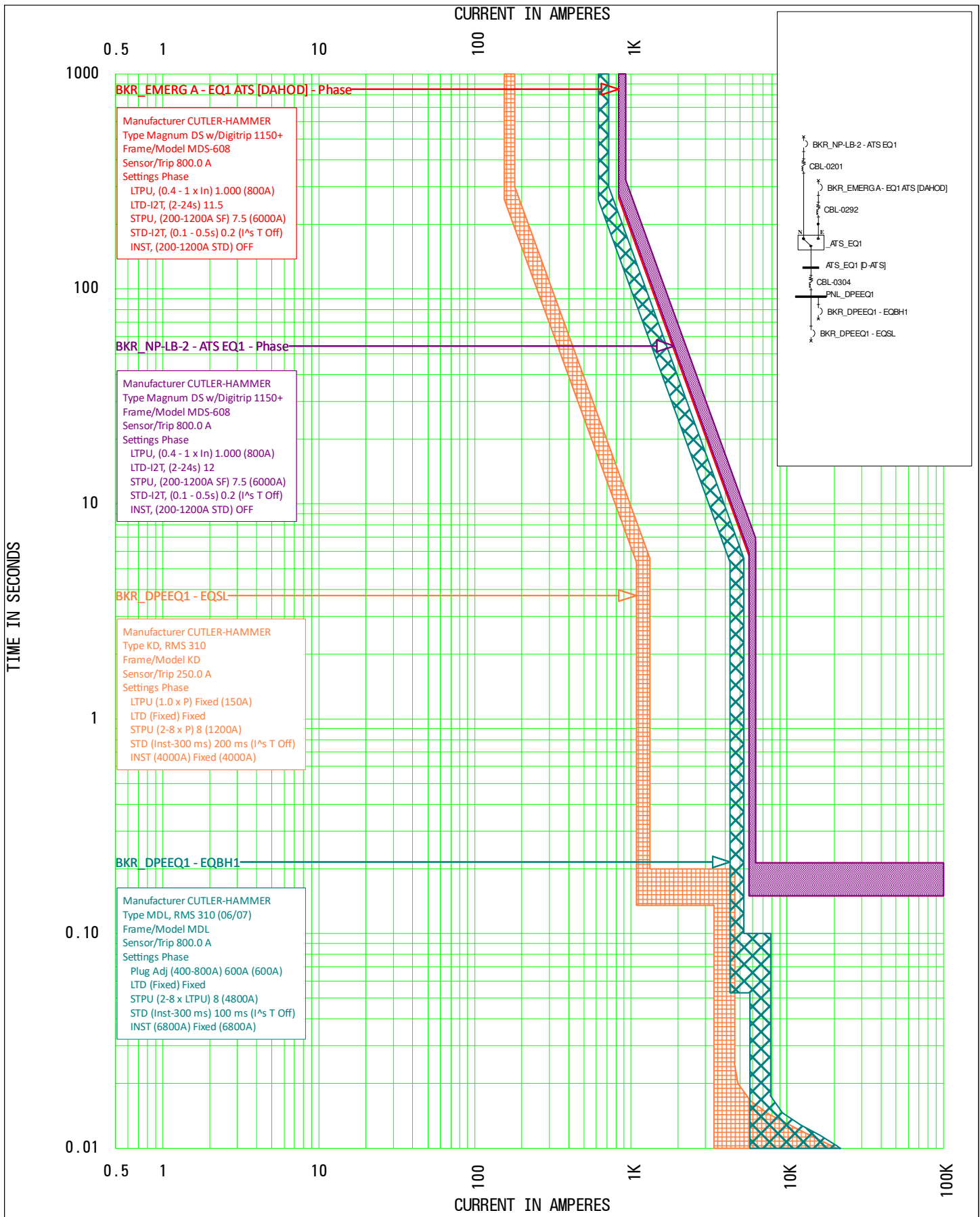Main Campus
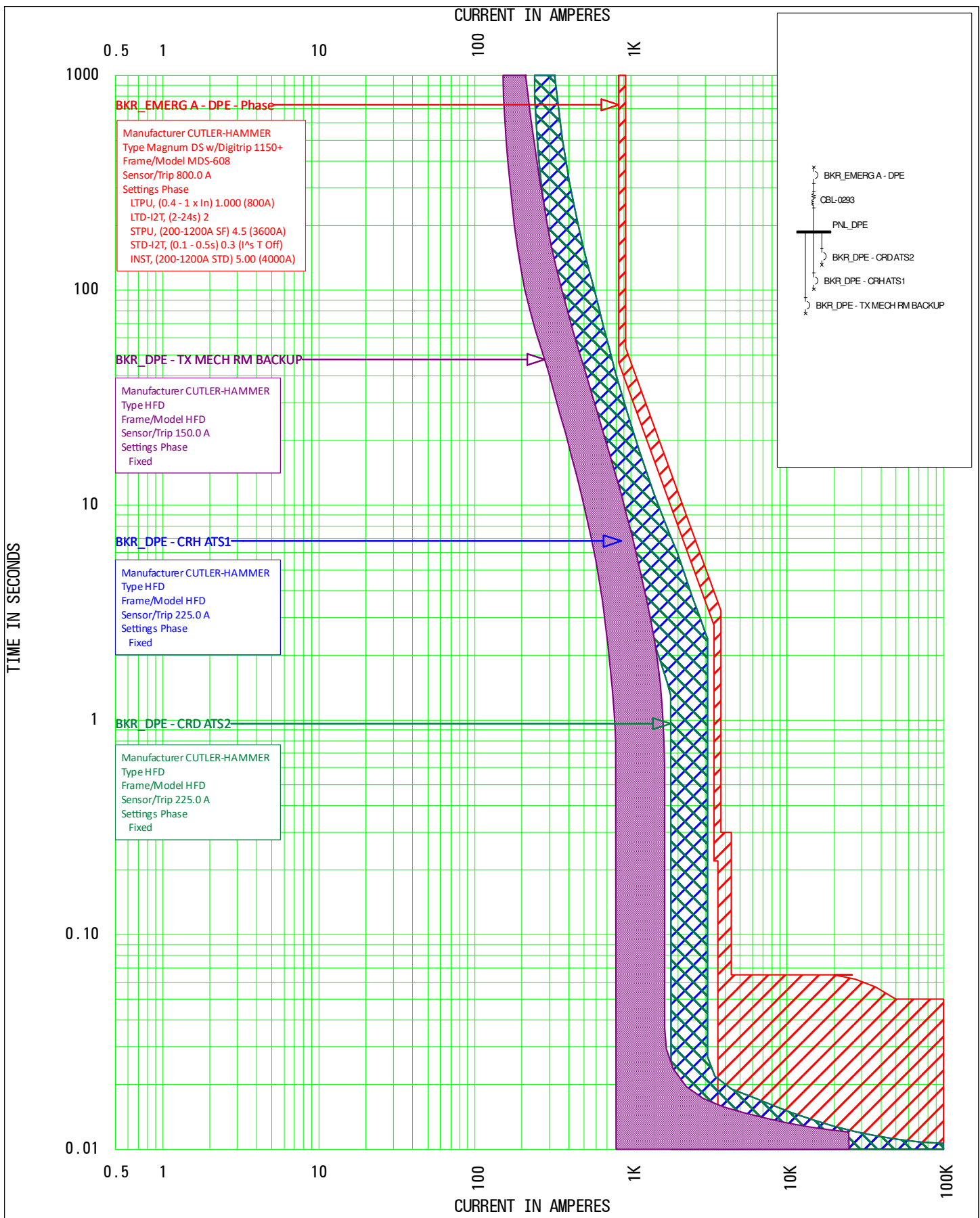
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_EMERG-B - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.900 (1800A)
  LTD-I2T, (2-24s) 9.5
  STPU, (200-1200A SF) 6.000 (10800A)
  STD-I2T, (0.1 - 0.5s) 0.5 (I^s T Off)
  INST, (200-1200A STD) M1(14x) (28000A)

BKR_EMERG B - C [TIE] - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.750 (1500A)
  LTD-I2T, (2-24s) 8
  STPU, (200-1200A SF) 6.000 (9000A)
  STD-I2T, (0.1 - 0.5s) 0.4 (I^s T Off)
  INST, (200-1200A STD) 11 (22000A)

BKR_EMERG-TIE A-B - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.750 (1500A)
  LTD-I2T, (2-24s) 8
  STPU, (200-1200A SF) 6.000 (9000A)
  STD-I2T, (0.1 - 0.5s) 0.4 (I^s T Off)
  INST, (200-1200A STD) 11 (22000A)

BKR_EMERG B - ATS EQ2 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 400.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (400A)
  LTD-I2T, (2-24s) 22
  STPU, (200-1200A SF) 8.000 (3200A)
  STD-I2T, (0.1 - 0.5s) 0.15 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_EMERG B - EQ2 [MS] - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (800A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 4.5 (3600A)
  STD-I2T, (0.1 - 0.5s) 0.5 (I^s T Off)
  INST, (200-1200A STD) 4.5 (3600A)

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram labels:
BKR_EMERG-TIE A-B
BKR_EMERG-B - MAIN
SWGR_EMERG-B [SW#2]
CBL-0032
BKR_EMERG B - C [TIE]
BKR_EMERG B - EQ2 [MS]
BKR_EMERG B - ATS EQ2

TCC Name: TCC_093a_SWGR_EMERG-B [SW#2]_ph
Project #810133
Recommendation_NEW
Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus
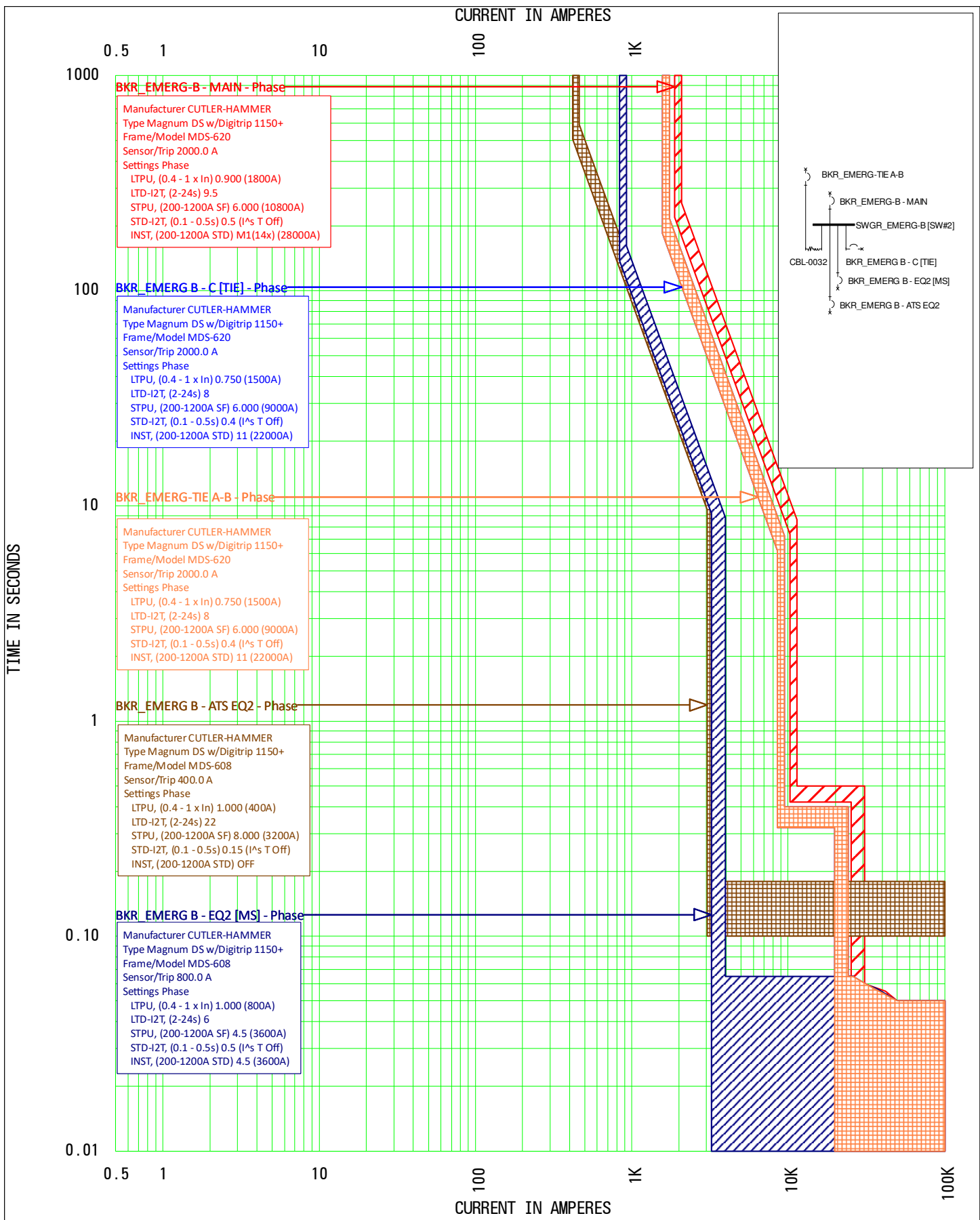
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_EMERG-B - MAIN - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Neutral
GFPU, (1150, 0.25 - 1) 0.32 (640A)

BKR_EMERG B - C [TIE] - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Neutral
GFPU, (1150, 0.25 - 1) 0.25 (500A)

BKR_EMERG-TIE A-B - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Neutral
GFPU, (1150, 0.25 - 1) 0.25 (500A)

BKR_EMERG B - ATS EQ2 - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 400.0 A
Settings Neutral
GFPU, (1150, 0.25 - 1) 0.25 (100A)

BKR_EMERG B - EQ2 [MS] - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Neutral
GFPU, (1150, 0.25 - 1) 0.4 (320A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_EMERG-TIE A-B
BKR_EMERG-B - MAIN
SWGR_EMERG-B [SW#2]
CBL-0032
BKR_EMERG B - C [TIE]
BKR_EMERG B - EQ2 [MS]
BKR_EMERG B - ATS EQ2

TCC Name: TCC_093b_SWGR_EMERG-B [SW#2]_ne
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
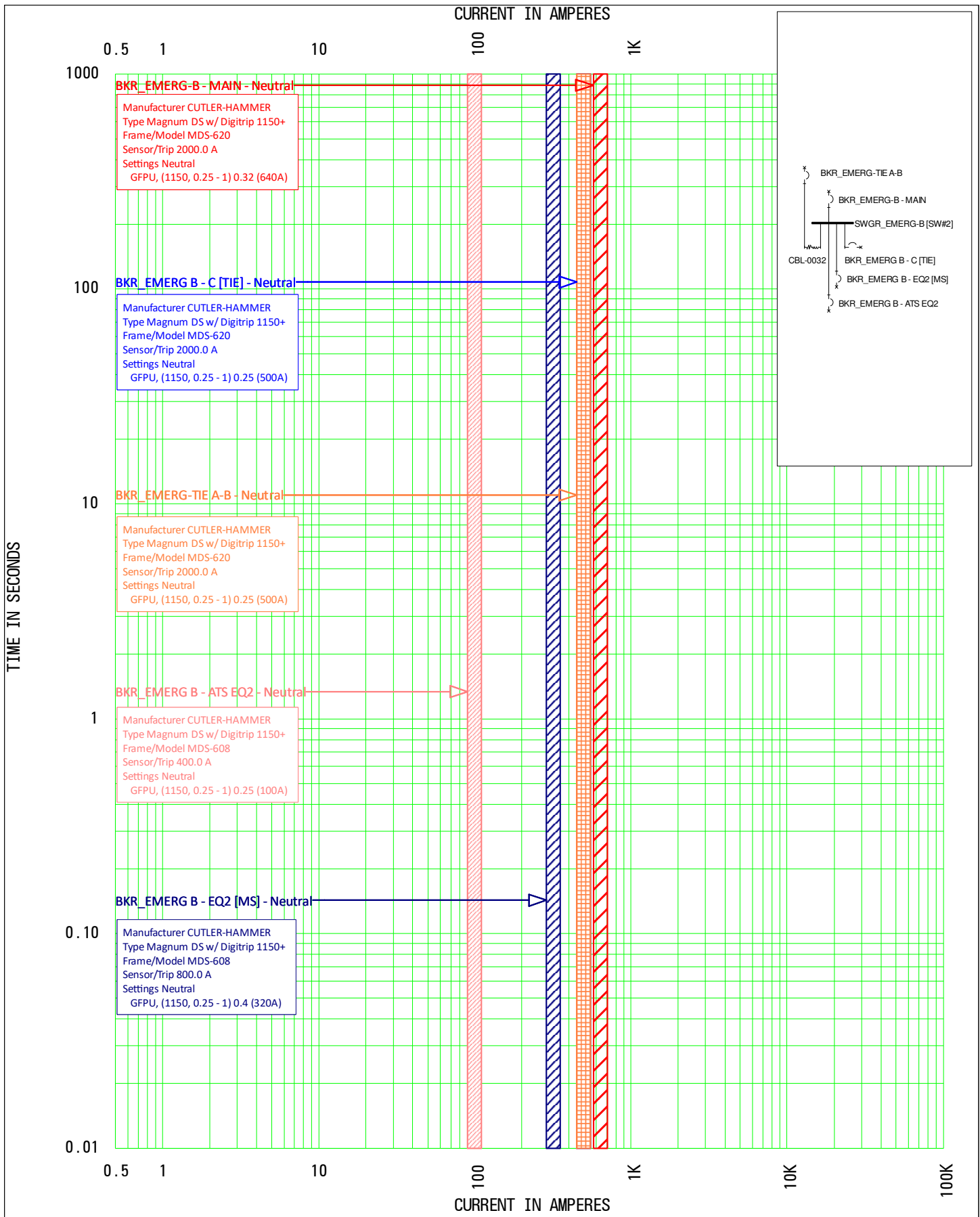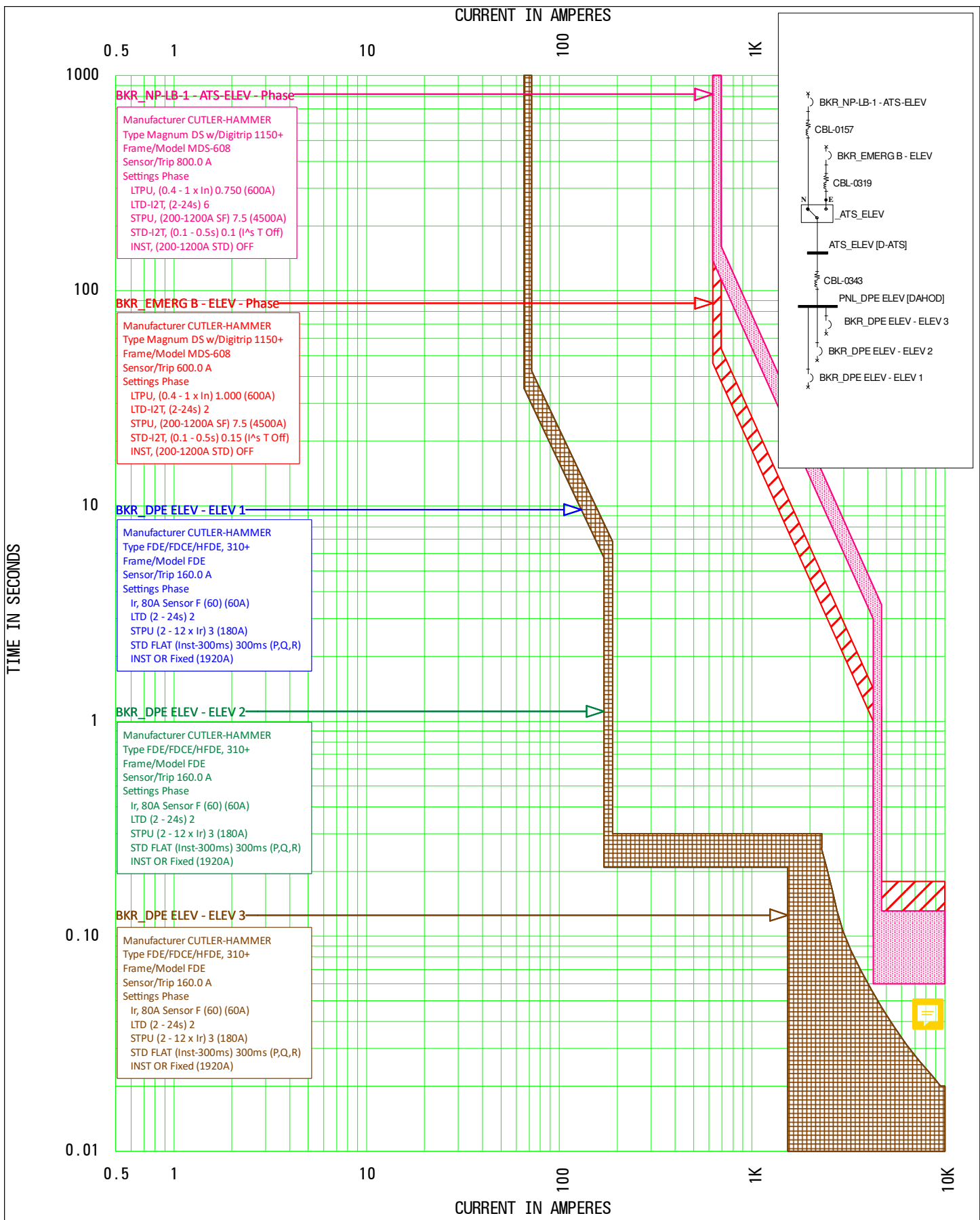Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

TIME IN SECONDS

BKR_NP-LB-1 - ATS-ELEV - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.750 (600A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 7.5 (4500A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_EMERG B - ELEV - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 600.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (600A)
  LTD-I2T, (2-24s) 2
  STPU, (200-1200A SF) 7.5 (4500A)
  STD-I2T, (0.1 - 0.5s) 0.15 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_DPE ELEV - ELEV 1

Manufacturer CUTLER-HAMMER
Type FDE/FDCE/HFDE, 310+
Frame/Model FDE
Sensor/Trip 160.0 A
Settings Phase
  Ir, 80A Sensor F (60) (60A)
  LTD (2 - 24s) 2
  STPU (2 - 12 x Ir) 3 (180A)
  STD FLAT (Inst-300ms) 300ms (P,Q,R)
  INST OR Fixed (1920A)

BKR_DPE ELEV - ELEV 2

Manufacturer CUTLER-HAMMER
Type FDE/FDCE/HFDE, 310+
Frame/Model FDE
Sensor/Trip 160.0 A
Settings Phase
  Ir, 80A Sensor F (60) (60A)
  LTD (2 - 24s) 2
  STPU (2 - 12 x Ir) 3 (180A)
  STD FLAT (Inst-300ms) 300ms (P,Q,R)
  INST OR Fixed (1920A)

BKR_DPE ELEV - ELEV 3

Manufacturer CUTLER-HAMMER
Type FDE/FDCE/HFDE, 310+
Frame/Model FDE
Sensor/Trip 160.0 A
Settings Phase
  Ir, 80A Sensor F (60) (60A)
  LTD (2 - 24s) 2
  STPU (2 - 12 x Ir) 3 (180A)
  STD FLAT (Inst-300ms) 300ms (P,Q,R)
  INST OR Fixed (1920A)

BKR_NP-LB-1 - ATS-ELEV
CBL-0157
BKR_EMERG B - ELEV
CBL-0319
N   E
_ATS_ELEV
ATS_ELEV [D-ATS]
CBL-0343
PNL_DPE ELEV [DAHOD]
BKR_DPE ELEV - ELEV 3
BKR_DPE ELEV - ELEV 2
BKR_DPE ELEV - ELEV 1
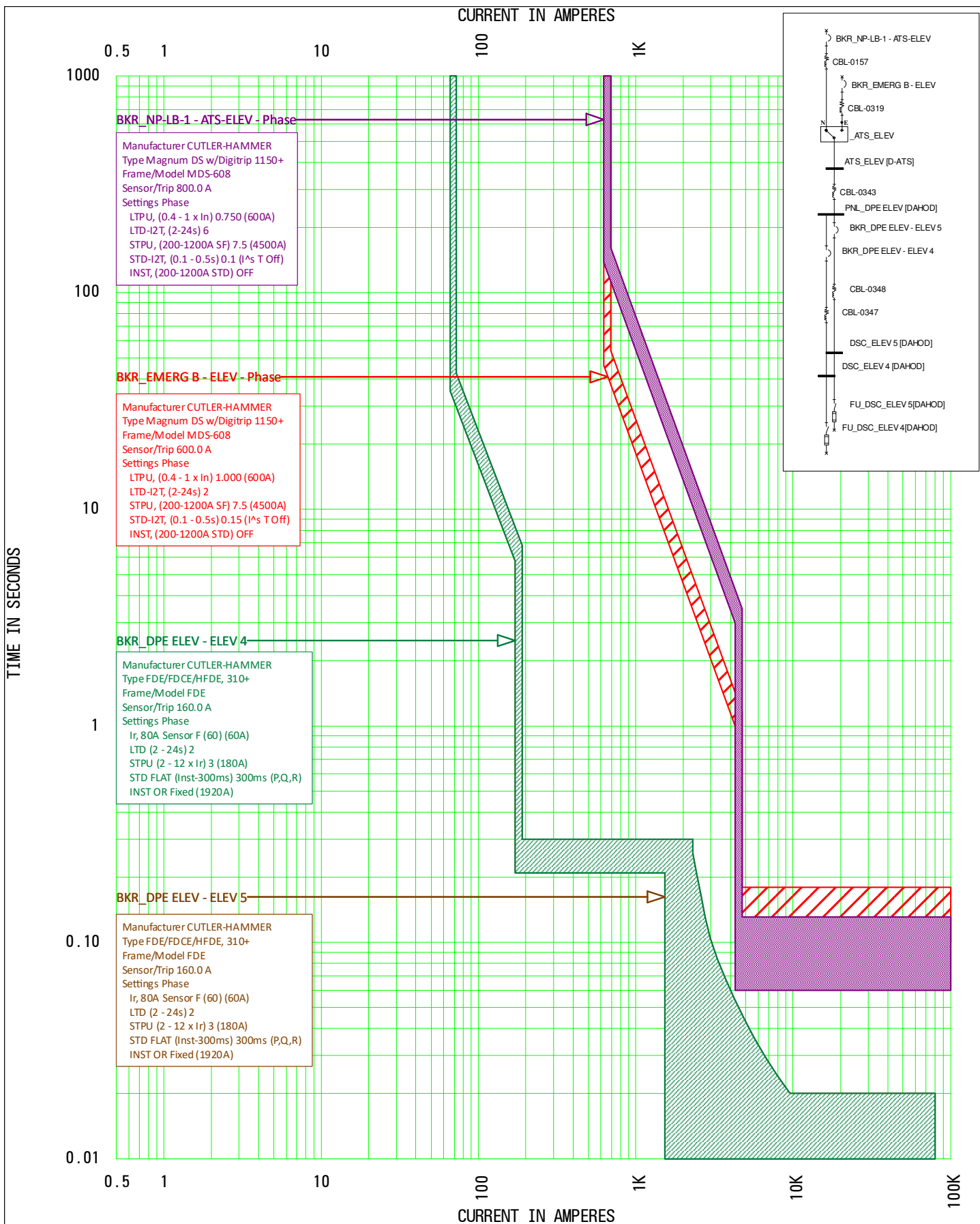
CURRENT IN AMPERES

TCC Name: TCC_094-1_PNL_DPE ELEV [DAHOD]
Project #810133
Recommendation_NEW   Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-1 - ATS-ELEV - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.750 (600A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 7.5 (4500A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_EMERG B - ELEV - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 600.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (600A)
  LTD-I2T, (2-24s) 2
  STPU, (200-1200A SF) 7.5 (4500A)
  STD-I2T, (0.1 - 0.5s) 0.15 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_DPE ELEV - ELEV 4

Manufacturer CUTLER-HAMMER
Type FDE/FDCE/HFDE, 310+
Frame/Model FDE
Sensor/Trip 160.0 A
Settings Phase
  Ir, 80A Sensor F (60) (60A)
  LTD (2 - 24s) 2
  STPU (2 - 12 x Ir) 3 (180A)
  STD FLAT (Inst-300ms) 300ms (P,Q,R)
  INST OR Fixed (1920A)

BKR_DPE ELEV - ELEV 5

Manufacturer CUTLER-HAMMER
Type FDE/FDCE/HFDE, 310+
Frame/Model FDE
Sensor/Trip 160.0 A
Settings Phase
  Ir, 80A Sensor F (60) (60A)
  LTD (2 - 24s) 2
  STPU (2 - 12 x Ir) 3 (180A)
  STD FLAT (Inst-300ms) 300ms (P,Q,R)
  INST OR Fixed (1920A)

TIME IN SECONDS

CURRENT IN AMPERES

Single-line diagram labels:
BKR_NP-LB-1 - ATS-ELEV
CBL-0157
BKR_EMERG B - ELEV
CBL-0319
ATS_ELEV
ATS_ELEV [D-ATS]
CBL-0343
PNL_DPE ELEV [DAHOD]
BKR_DPE ELEV - ELEV 5
BKR_DPE ELEV - ELEV 4
CBL-0348
CBL-0347
DSC_ELEV 5 [DAHOD]
DSC_ELEV 4 [DAHOD]
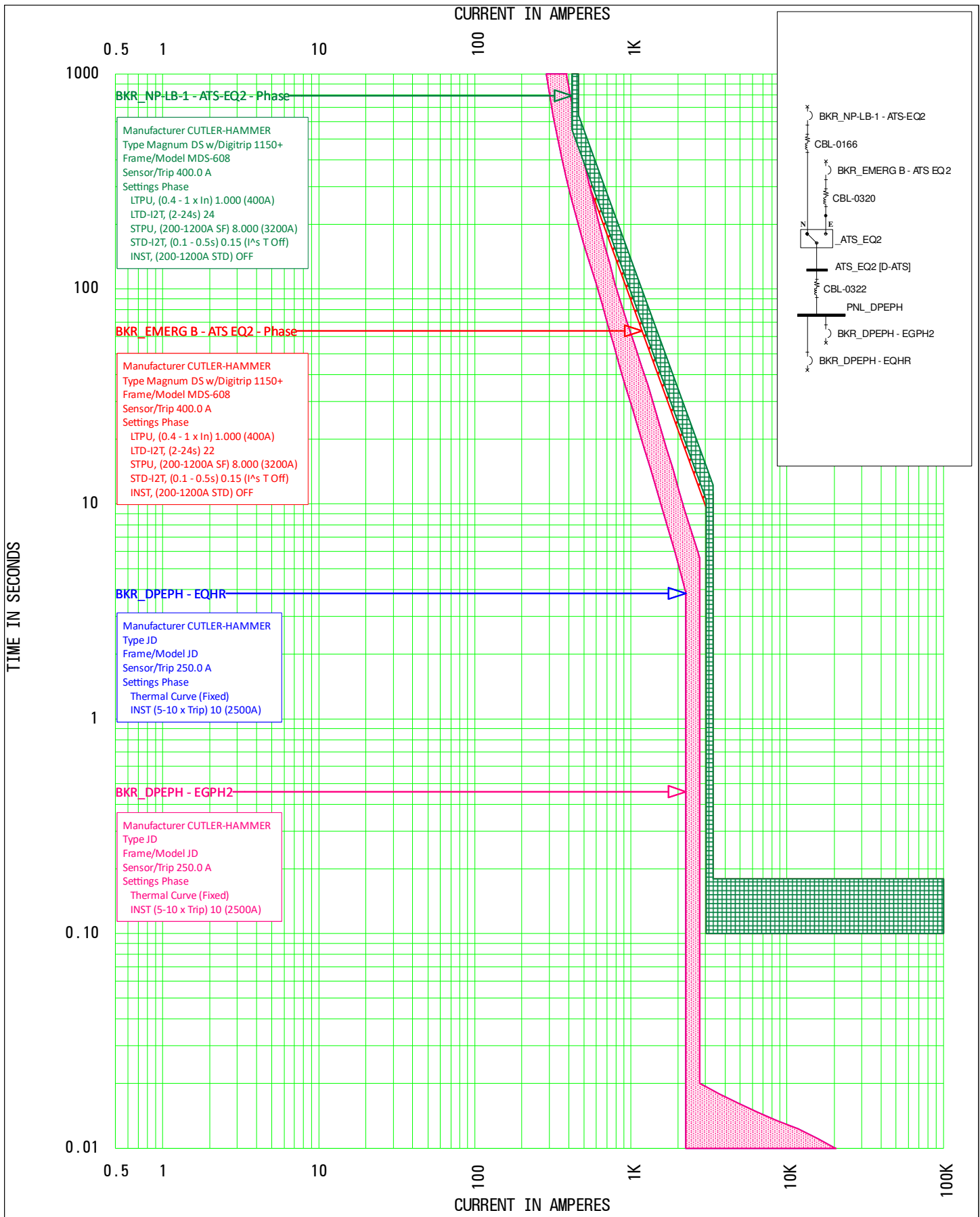FU_DSC_ELEV 5[DAHOD]
FU_DSC_ELEV 4[DAHOD]

TCC Name: TCC_094-2_PNL_DPE ELEV [DAHOD]
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-1 - ATS-EQ2 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 400.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (400A)
  LTD-I2T, (2-24s) 24
  STPU, (200-1200A SF) 8.000 (3200A)
  STD-I2T, (0.1 - 0.5s) 0.15 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_EMERG B - ATS EQ2 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 400.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (400A)
  LTD-I2T, (2-24s) 22
  STPU, (200-1200A SF) 8.000 (3200A)
  STD-I2T, (0.1 - 0.5s) 0.15 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_DPEPH - EQHR

Manufacturer CUTLER-HAMMER
Type JD
Frame/Model JD
Sensor/Trip 250.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (5-10 x Trip) 10 (2500A)

BKR_DPEPH - EGPH2

Manufacturer CUTLER-HAMMER
Type JD
Frame/Model JD
Sensor/Trip 250.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (5-10 x Trip) 10 (2500A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_NP-LB-1 - ATS-EQ2
CBL-0166
BKR_EMERG B - ATS EQ 2
CBL-0320
N   E
_ATS_EQ2
ATS_EQ2 [D-ATS]
CBL-0322
PNL_DPEPH
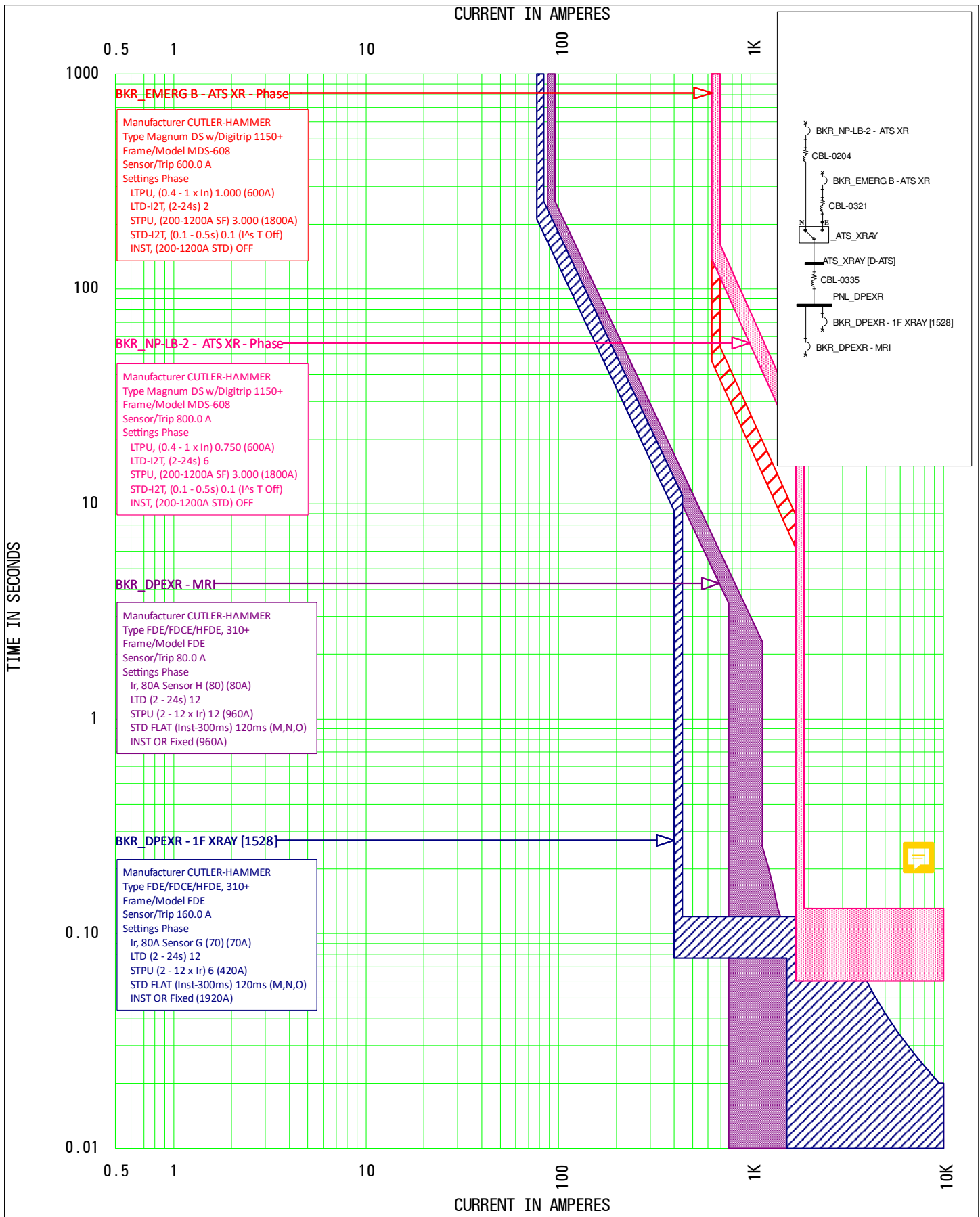BKR_DPEPH - EGPH2
BKR_DPEPH - EQHR

TCC Name: TCC_095_PNL_DPEPH
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_EMERG B - ATS XR - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 600.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (600A)
  LTD-I2T, (2-24s) 2
  STPU, (200-1200A SF) 3.000 (1800A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_NP-LB-2 - ATS XR - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.750 (600A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 3.000 (1800A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_DPEXR - MRI

Manufacturer CUTLER-HAMMER
Type FDE/FDCE/HFDE, 310+
Frame/Model FDE
Sensor/Trip 80.0 A
Settings Phase
  Ir, 80A Sensor H (80) (80A)
  LTD (2 - 24s) 12
  STPU (2 - 12 x Ir) 12 (960A)
  STD FLAT (Inst-300ms) 120ms (M,N,O)
  INST OR Fixed (960A)

BKR_DPEXR - 1F XRAY [1528]

Manufacturer CUTLER-HAMMER
Type FDE/FDCE/HFDE, 310+
Frame/Model FDE
Sensor/Trip 160.0 A
Settings Phase
  Ir, 80A Sensor G (70) (70A)
  LTD (2 - 24s) 12
  STPU (2 - 12 x Ir) 6 (420A)
  STD FLAT (Inst-300ms) 120ms (M,N,O)
  INST OR Fixed (1920A)

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram labels:
BKR_NP-LB-2 - ATS XR
CBL-0204
BKR_EMERG B - ATS XR
CBL-0321
_ATS_XRAY
ATS_XRAY [D-ATS]
CBL-0335
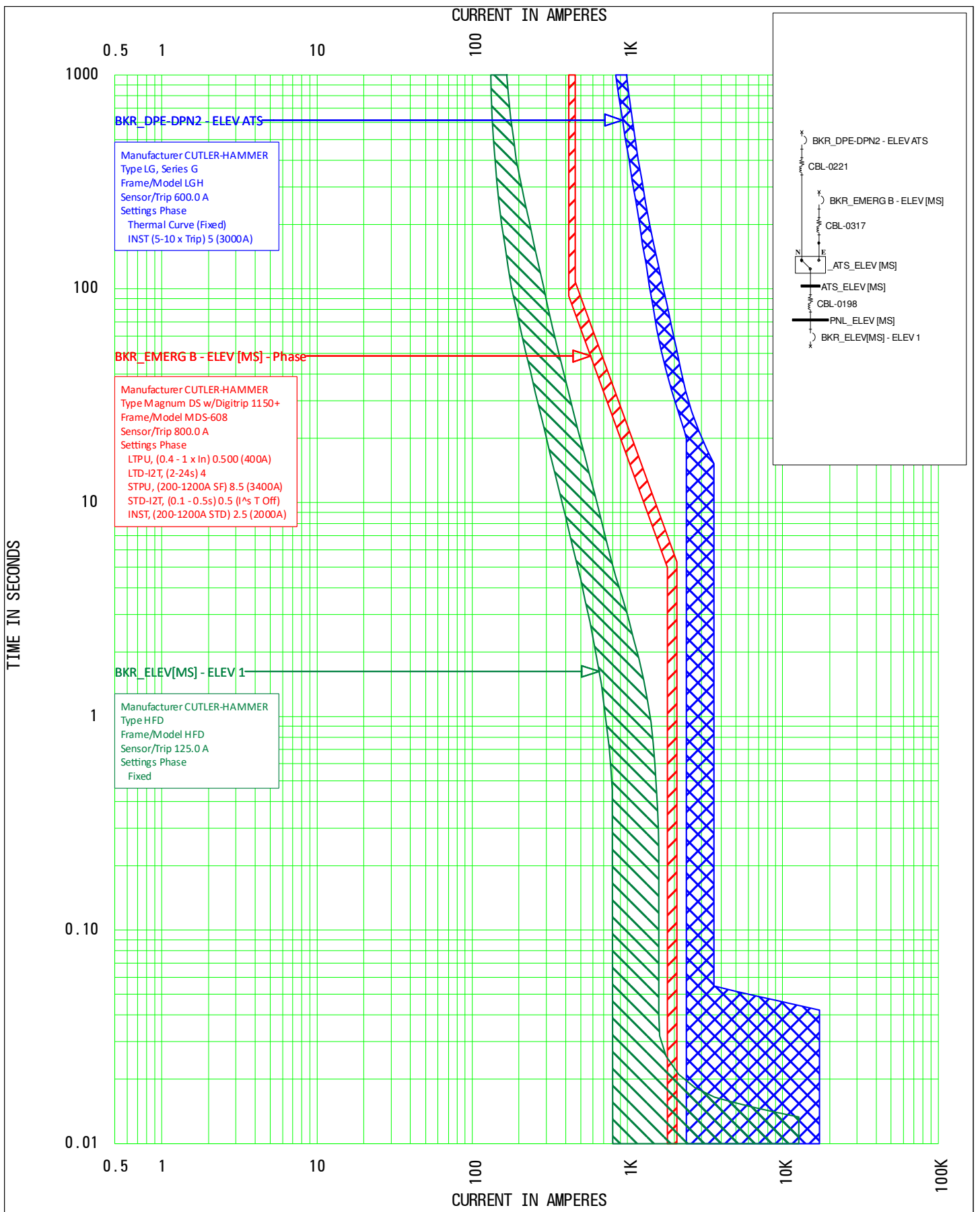PNL_DPEXR
BKR_DPEXR - 1F XRAY [1528]
BKR_DPEXR - MRI

TCC Name: TCC_096_PNL_DPEXR
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPE-DPN2 - ELEV ATS

Manufacturer CUTLER-HAMMER
Type LG, Series G
Frame/Model LGH
Sensor/Trip 600.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (5-10 x Trip) 5 (3000A)

BKR_EMERG B - ELEV [MS] - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.500 (400A)
  LTD-I2T, (2-24s) 4
  STPU, (200-1200A SF) 8.5 (3400A)
  STD-I2T, (0.1 - 0.5s) 0.5 (I^s T Off)
  INST, (200-1200A STD) 2.5 (2000A)

BKR_ELEV[MS] - ELEV 1

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 125.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

Schematic (right side):
BKR_DPE-DPN2 - ELEV ATS
CBL-0221
BKR_EMERG B - ELEV [MS]
CBL-0317
ATS_ELEV [MS]
ATS_ELEV [MS]
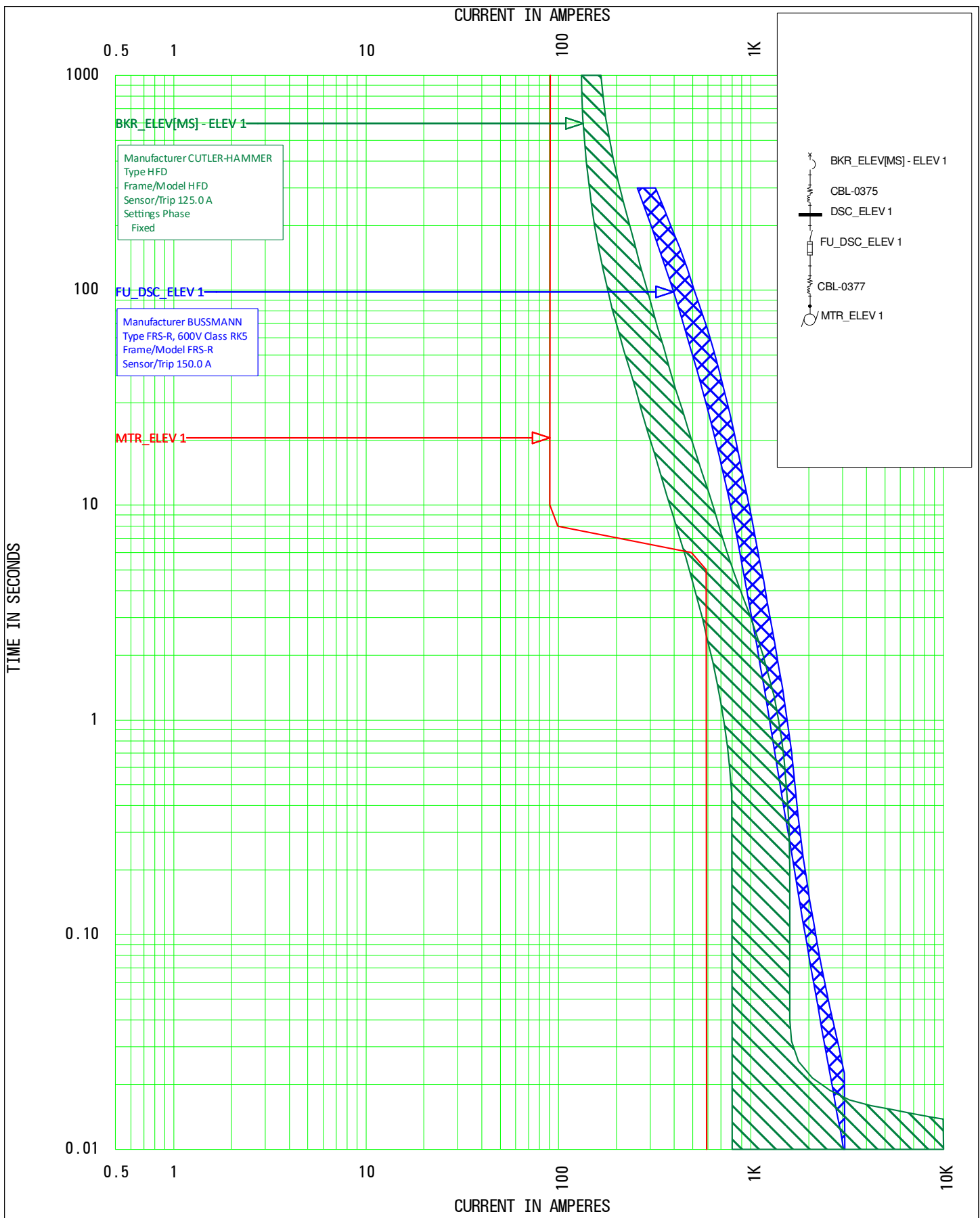CBL-0198
PNL_ELEV [MS]
BKR_ELEV[MS] - ELEV 1

TCC Name: TCC_097_PNL_ELEV [MS]
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_ELEV[MS] - ELEV 1

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 125.0 A
Settings Phase
   Fixed

FU_DSC_ELEV 1

Manufacturer BUSSMANN
Type FRS-R, 600V Class RK5
Frame/Model FRS-R
Sensor/Trip 150.0 A

MTR_ELEV 1

TIME IN SECONDS

CURRENT IN AMPERES

BKR_ELEV[MS] - ELEV 1
CBL-0375
DSC_ELEV 1
FU_DSC_ELEV 1
CBL-0377
MTR_ELEV 1

TCC Name: TCC_098_MTR_ELEV 1
Project #810133
Recommendation_NEW   Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_ELEV[MS] - ELEV 2

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 125.0 A
Settings Phase
  Fixed

FU_DSC_ELEV 2

Manufacturer BUSSMANN
Type FRS-R, 600V Class RK5
Frame/Model FRS-R
Sensor/Trip 150.0 A

MTR_ELEV 2

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram:
- BKR_ELEV[MS] - ELEV 2
- CBL-0376
- DSC_ELEV 2
- FU_DSC_ELEV 2
- CBL-0378
- MTR_ELEV 2

TCC Name: TCC_099_MTR_ELEV 2
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_ELEV[MS] - ELEV 3

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 125.0 A
Settings Phase
  Fixed

FU_DSC_ELEV 3

Manufacturer BUSSMANN
Type FRS-R, 600V Class RK5
Frame/Model FRS-R
Sensor/Trip 150.0 A

MTR_ELEV 3

TIME IN SECONDS

CURRENT IN AMPERES

BKR_ELEV[MS] - ELEV 3
CBL-0379
DSC_ELEV 3
FU_DSC_ELEV 3
CBL-0380
MTR_ELEV 3

TCC Name: TCC_100_MTR_ELEV 3
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
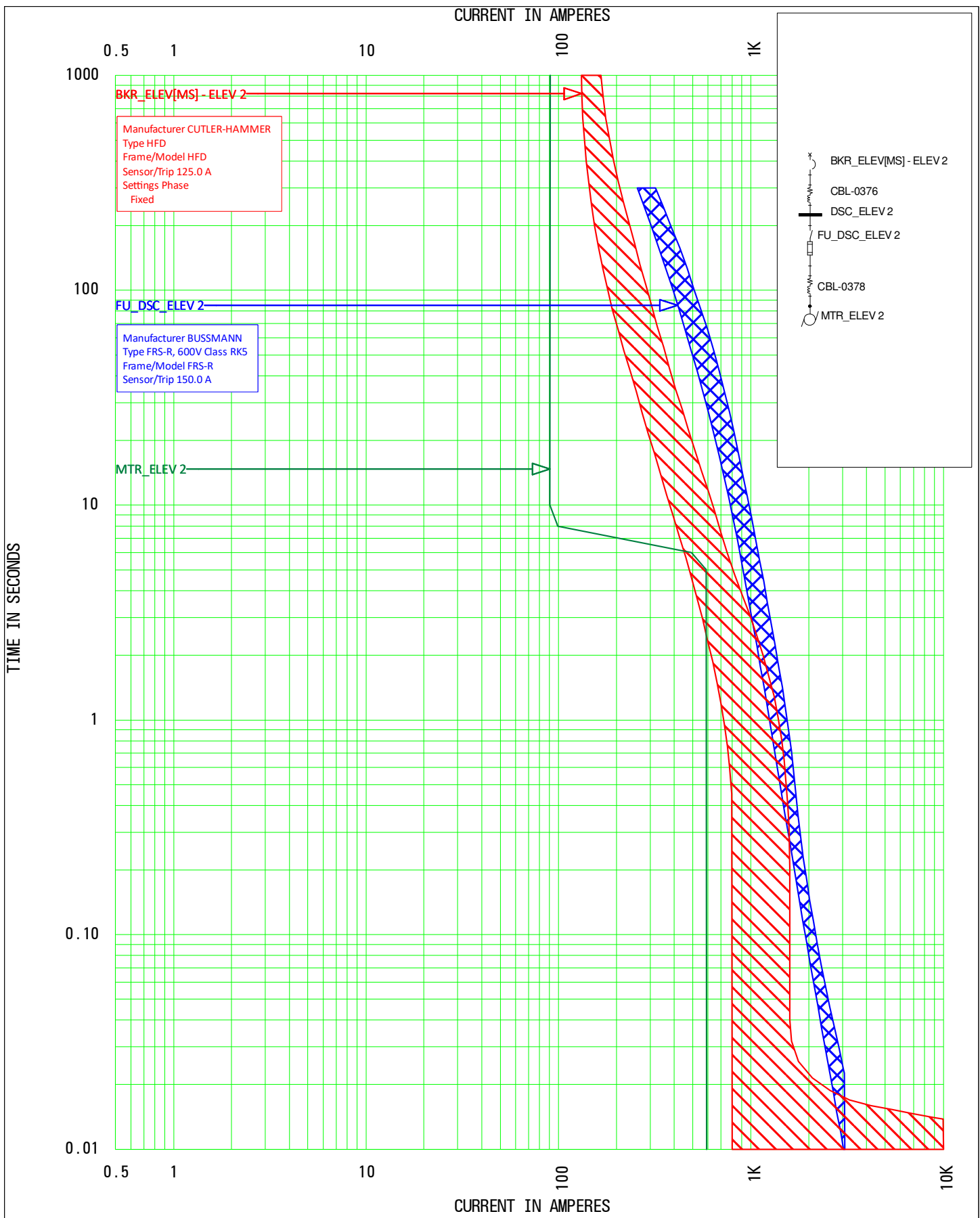Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_ELEV[MS] - ELEV 4

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 125.0 A
Settings Phase
  Fixed

FU_DSC_ELEV 4

Manufacturer BUSSMANN
Type FRS-R, 600V Class RK5
Frame/Model FRS-R
Sensor/Trip 150.0 A

MTR_ELEV 4

TIME IN SECONDS

CURRENT IN AMPERES

Single-line diagram:
- BKR_ELEV[MS] - ELEV 4
- CBL-0381
- DSC_ELEV 4
- FU_DSC_ELEV 4
- CBL-0382
- MTR_ELEV 4

TCC Name: TCC_101_MTR_ELEV 4
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus
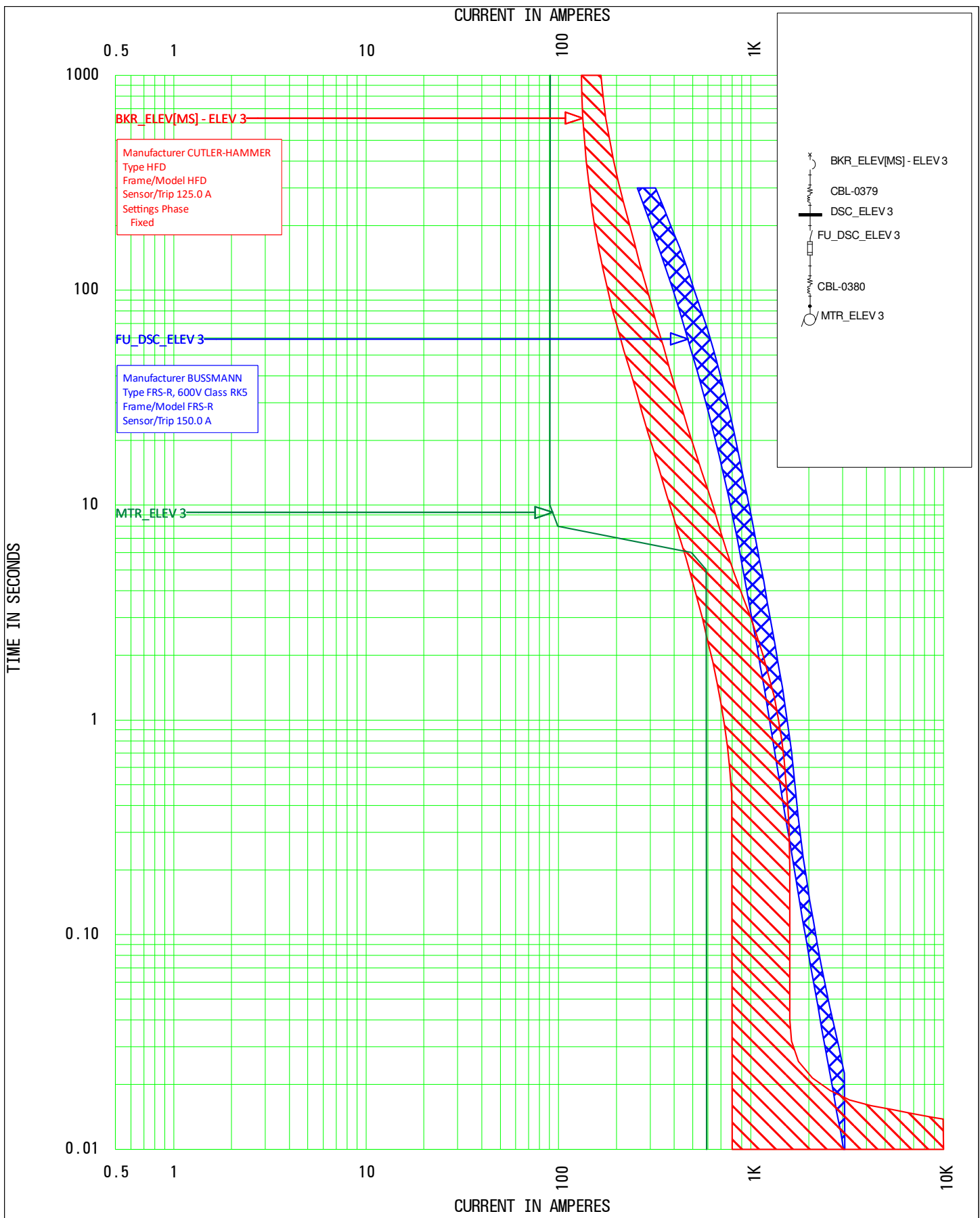
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPE-DPN2 - EQ2 ATS
Manufacturer CUTLER-HAMMER
Type HKD
Frame/Model HKD
Sensor/Trip 400.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (5-10 x Trip) 10 (4000A)

BKR_EMERG B - EQ2 [MS] - Phase
Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (800A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 4.5 (3600A)
  STD-I2T, (0.1 - 0.5s) 0.5 (I^s T Off)
  INST, (200-1200A STD) 4.5 (3600A)

BKR_EQ2 - EQ2HMP1
Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 100.0 A
Settings Phase
  Fixed

BKR_EQ2 - MED AIR
Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 90.0 A
Settings Phase
  Fixed

BKR_EQ2 - PUMPS
Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 90.0 A
Settings Phase
  Fixed

BKR_EQ2 - EQ2HMP2
Manufacturer CUTLER-HAMMER
Type HJD
Frame/Model HJD
Sensor/Trip 250.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (5-10 x Trip) 10 (2500A)

Single-line diagram labels:
- BKR_DPE-DPN2 - EQ2 ATS
- CBL-0223_1
- BKR_EMERG B - EQ2 [MS]
- CBL-0318
- _ATS_EQ2 [MS]
- ATS_EQ2 [MS]
- CBL-0200
- PNL_EQ2 [MS]
- BKR_EQ2 - EQ2HMP2
- BKR_EQ2 - PUMPS
- BKR_EQ2 - MED AIR
- BKR_EQ2 - EQ2HMP1

TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_102_PNL_EQ2 [MS]
Project #810133
Recommendation_NEW
Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
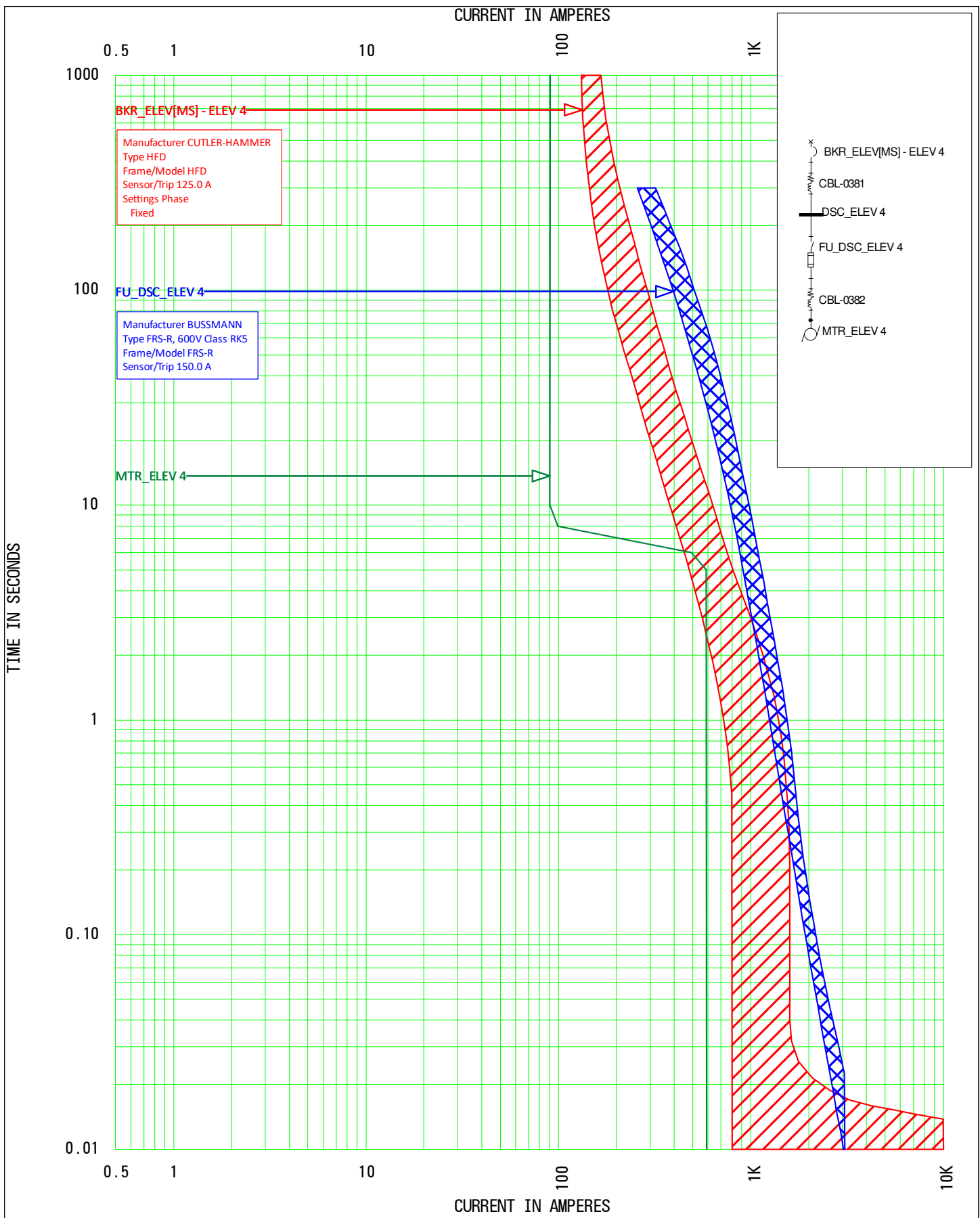Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_EMERG-C - MAIN - Phase
Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.900 (1800A)
  LTD-I2T, (2-24s) 9.5
  STPU, (200-1200A SF) 6.000 (10800A)
  STD-I2T, (0.1 - 0.5s) 0.5 (I^s T Off)
  INST, (200-1200A STD) M1(14x) (28000A)

BKR_EMERG B - C [TIE] - Phase
Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.750 (1500A)
  LTD-I2T, (2-24s) 8
  STPU, (200-1200A SF) 6.000 (9000A)
  STD-I2T, (0.1 - 0.5s) 0.4 (I^s T Off)
  INST, (200-1200A STD) 11 (22000A)

BKR_EMERG C -DAHOD LS GEAR TIE - Phase
Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.750 (600A)
  LTD-I2T, (2-24s) 24
  STPU, (200-1200A SF) 5.5 (3300A)
  STD-I2T, (0.1 - 0.5s) 0.5 (I^s T Off)
  INST, (200-1200A STD) 3.00 (2400A)

BKR_EMERG C - CR2 - Phase
Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.500 (400A)
  LTD-I2T, (2-24s) 9
  STPU, (200-1200A SF) 13 (5200A)
  STD-I2T, (0.1 - 0.5s) 0.5 (I^s T Off)
  INST, (200-1200A STD) 2.00 (1600A)

BKR_EMERG C - LS - Phase
Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.900 (180A)
  LTD-I2T, (2-24s) 10.5
  STPU, (200-1200A SF) 9 (1620A)
  STD-I2T, (0.1 - 0.5s) 0.3 (I^s T Off)
  INST, (200-1200A STD) 8.5 (1700A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_EMERG B - C [TIE]
BKR_EMERG-C - MAIN
SWGR_EMERG-C [SW#3]
CBL-0035
BKR_EMERG C -DAHOD LS GEAR TIE
BKR_EMERG C - CR2
BKR_EMERG C - LS

TCC Name: TCC_103_SWGR_EMERG C
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

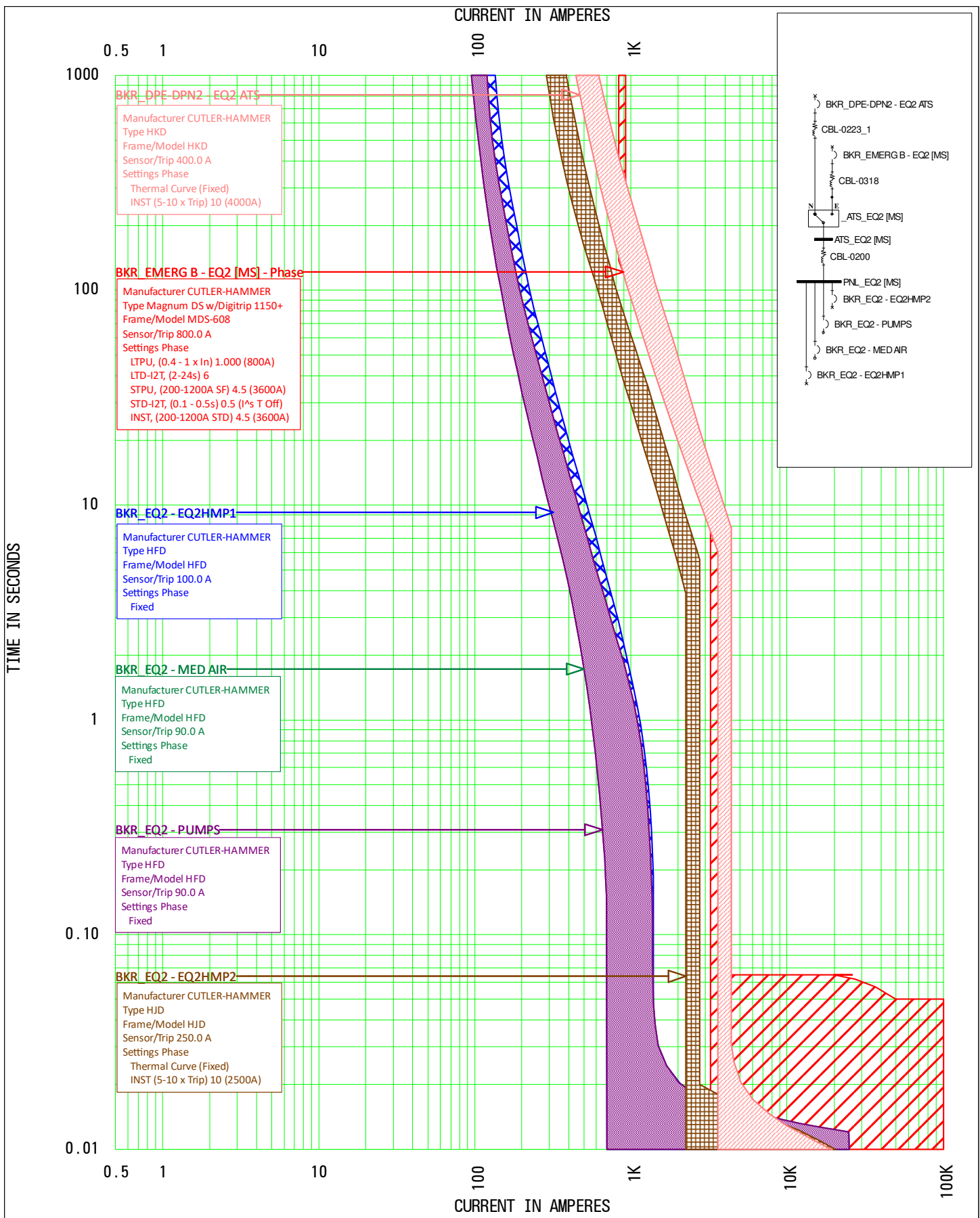CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_EMERG C - CR1 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 400.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.600 (240A)
  LTD-I2T, (2-24s) 11
  STPU, (200-1200A SF) M1(14x) (3360A)
  STD-I2T, (0.1 - 0.5s) 0.5 (I^s T Off)
  INST, (200-1200A STD) 4.5 (1800A)

BKR_CATHLAB - CR1 ATS

Manufacturer GE
Type SGLA, Spectra RMS
Frame/Model SGLA
Sensor/Trip 250.0 A
Settings Phase
  MAX

BKR_DPE CR1 - CR1HMP1

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 100.0 A
Settings Phase
  Fixed

BKR_DPE CR1 - DCR4B1

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 100.0 A
Settings Phase
  Fixed

BKR_DPE CR1 - CRG1

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 100.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram:
- BKR_EMERG C - CR1
- CBL-0050
- BKR_CATHLAB - CR1 ATS
- CBL-0125
- _ATS_CR1
- ATS_CR1
- CBL-0051
- PNL_DPE CR1
- BKR_DPE CR1 - CRG1
- BKR_DPE CR1 - DCR4B1
- BKR_DPE CR1 - CR1HMP1

TCC Name: TCC_104_PNL_DPE CR1
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
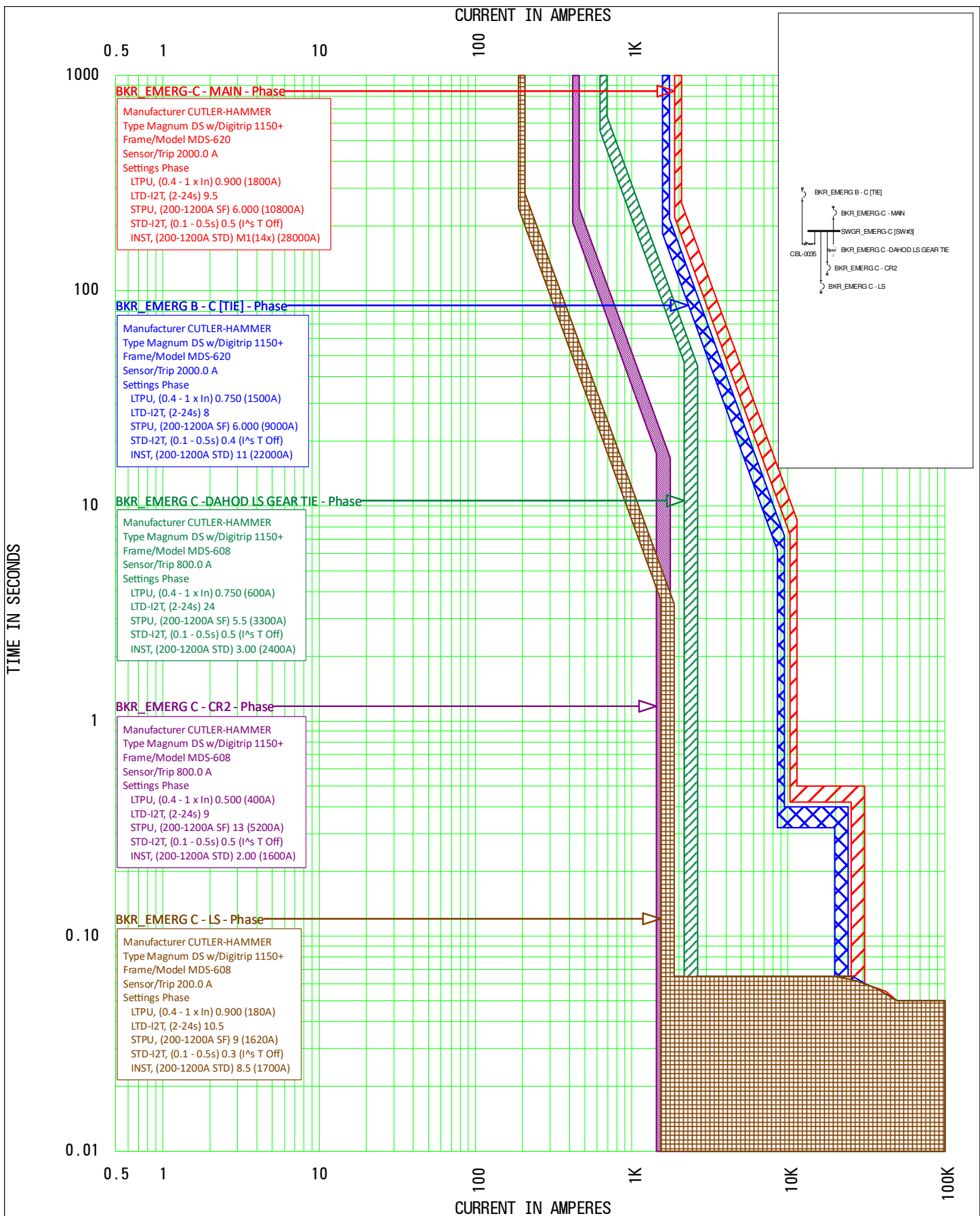Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPE CR1 - CR1HMP1

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 100.0 A
Settings Phase
  Fixed

BKR_CR1HMP1 - CR2HMP1 [TIE]

Manufacturer CUTLER-HAMMER
Type GHB
Frame/Model GHB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve
  INST (Fixed) Fixed (1000A)

BKR_CR1HMP1 - CR1LMP1

Manufacturer CUTLER-HAMMER
Type GHB
Frame/Model GHB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve
  INST (Fixed) Fixed (1000A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_DPE CR1 - CR1HMP1
CBL-0357
PNL_CR1HMP1
BKR_CR1HMP1 - CR2HMP1 [TIE]
BKR_CR1HMP1 - CR1LMP1

TCC Name: TCC_105_PNL_CR1HMP1
Project #810133
Recommendation_NEW
Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus
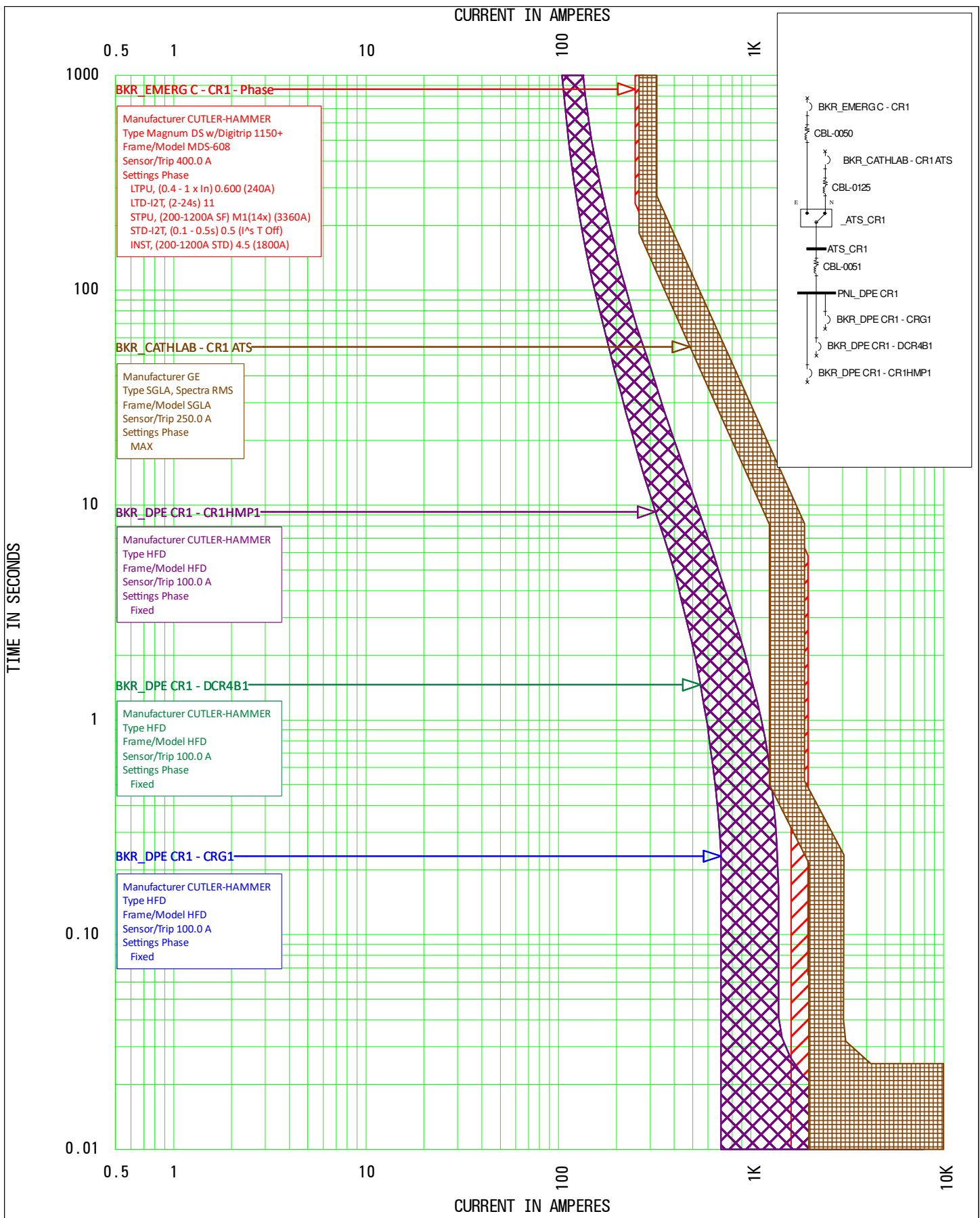
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_EMERG C - CR2 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.500 (400A)
  LTD-I2T, (2-24s) 9
  STPU, (200-1200A SF) 13 (5200A)
  STD-I2T, (0.1 - 0.5s) 0.5 (I^s T Off)
  INST, (200-1200A STD) 2.00 (1600A)

BKR_CATHLAB - CR2 ATS

Manufacturer GE
Type SGLA, Spectra RMS
Frame/Model SGLA
Sensor/Trip 400.0 A
Settings Phase
  MAX

BKR_DPE CR2 - CR2HMP1

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 100.0 A
Settings Phase
  Fixed

BKR_DPE CR2 - DCR4B2

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 100.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram labels:
- BKR_EMERG C - CR2
- CBL-0056
- BKR_CATHLAB - CR2 ATS
- CBL-0126
- _ATS_CR2
- ATS_CR2
- CBL-0057
- PNL_DPE CR2
- BKR_DPE CR2 - DCR4B2
- BKR_DPE CR2 - CR2HMP1

TCC Name: TCC_106_PNL_DPE CR2
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
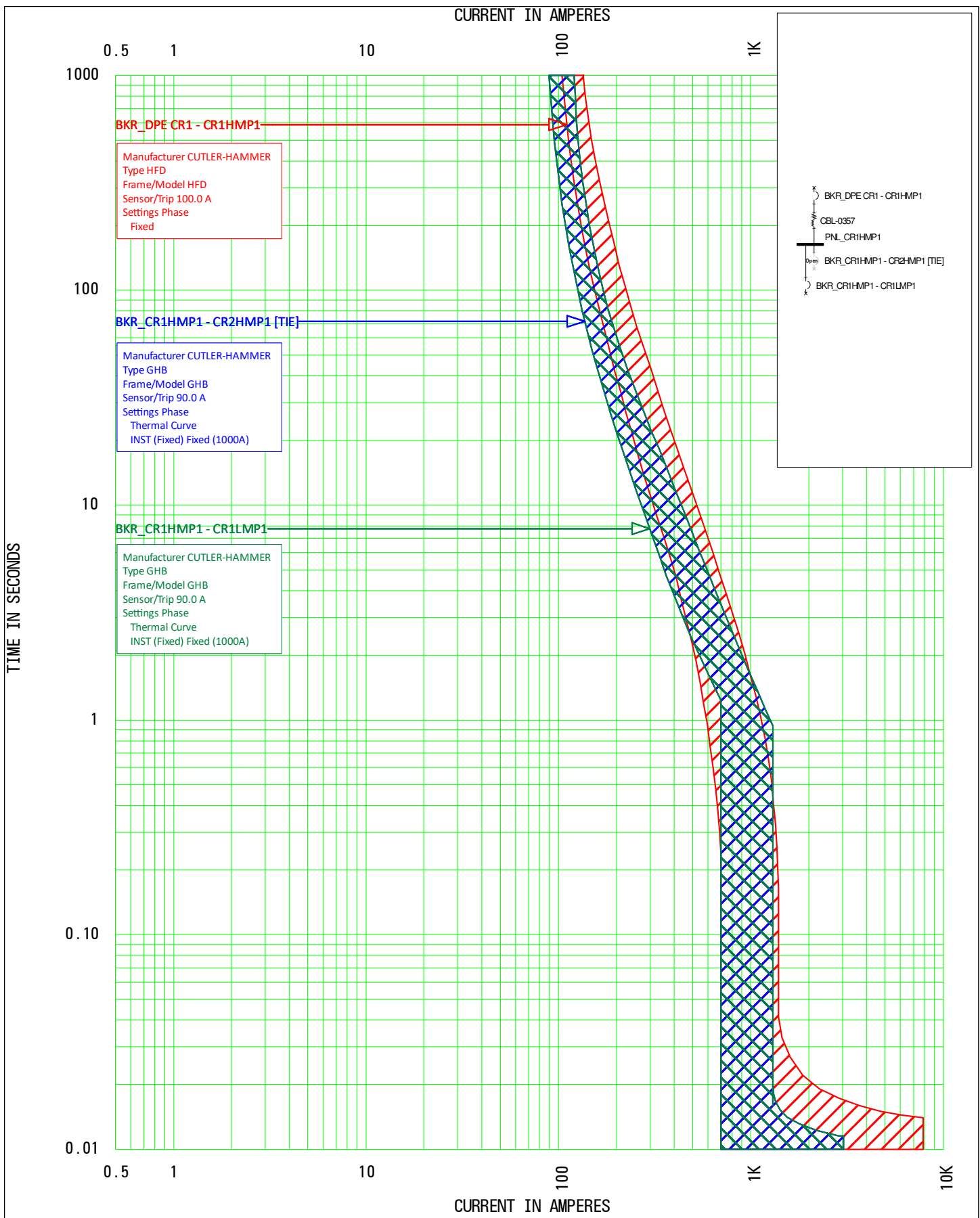Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPE CR2 - CR2HMP1

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 100.0 A
Settings Phase
   Fixed

BKR_CR2HMP1 - CR1HMP1 [TIE]

Manufacturer CUTLER-HAMMER
Type GHB
Frame/Model GHB
Sensor/Trip 90.0 A
Settings Phase
   Thermal Curve
   INST (Fixed) Fixed (1000A)

BKR_CR2HMP1 - CR2LMP1

Manufacturer CUTLER-HAMMER
Type GHB
Frame/Model GHB
Sensor/Trip 90.0 A
Settings Phase
   Thermal Curve
   INST (Fixed) Fixed (1000A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_DPE CR2 - CR2HMP1
CBL-0364
PNL_CR2HMP1
BKR_CR2HMP1 - CR2LMP1
Open BKR_CR2HMP1 - CR1HMP1 [TIE]

TCC Name: TCC_107_PNL_CR2HMP1
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus
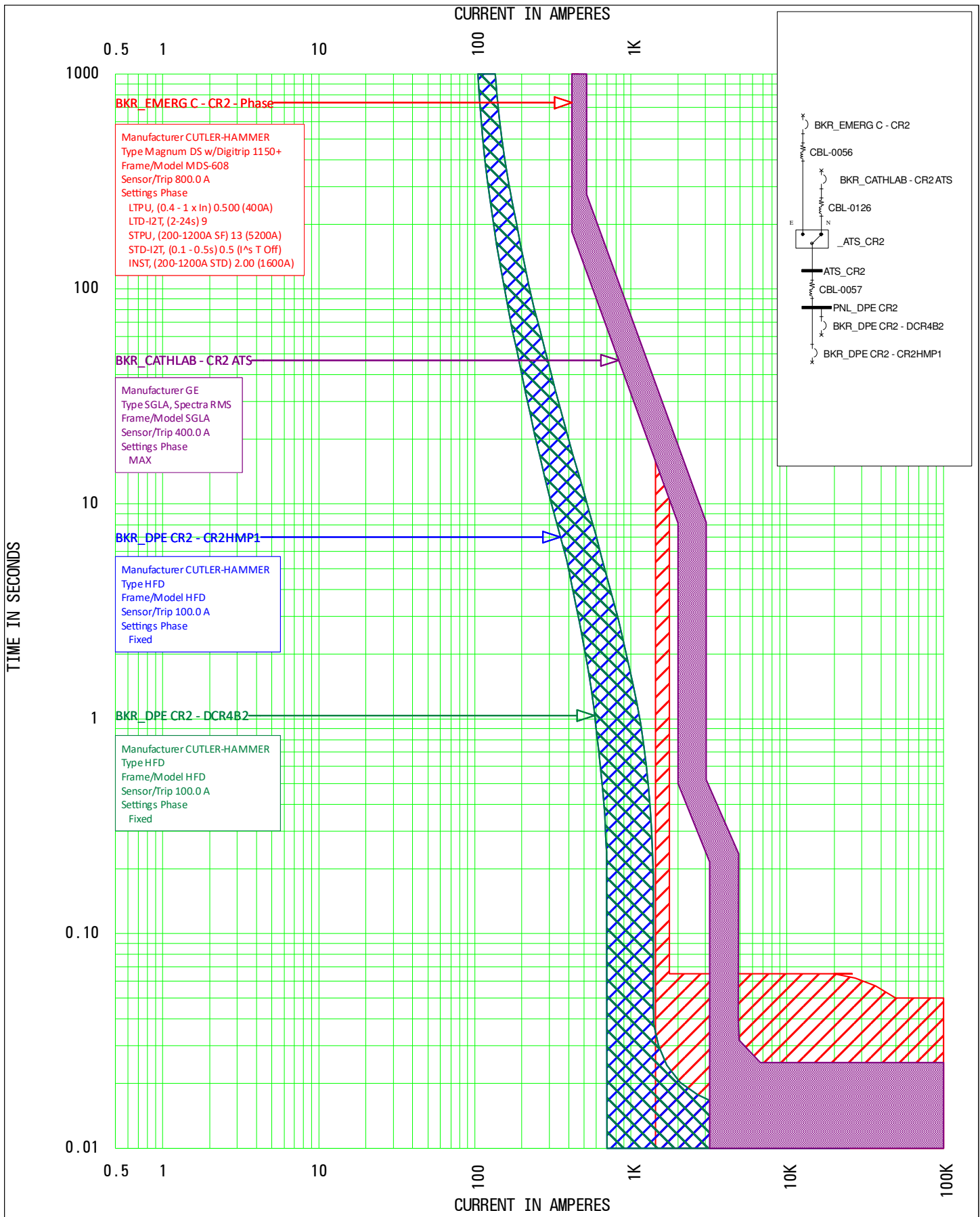
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_EMERG C - LS - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.900 (180A)
  LTD-I2T, (2-24s) 10.5
  STPU, (200-1200A SF) 9 (1620A)
  STD-I2T, (0.1 - 0.5s) 0.3 (I^s T Off)
  INST, (200-1200A STD) 8.5 (1700A)

BKR_CATHLAB - LS ATS

Manufacturer GE
Type SGLA, Spectra RMS
Frame/Model SGLA
Sensor/Trip 150.0 A
Settings Phase
  MAX

BKR_DPE LS - LSHMP1

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 100.0 A
Settings Phase
  Fixed

BKR_DPE LS - LS211

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 60.0 A
Settings Phase
  Fixed

BKR_DPE LS - LS2G1

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 60.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram labels:
BKR_EMERG C - LS
CBL-0062
BKR_CATHLAB - LS ATS
CBL-0124
_ATS_LS [C]
ATS_LS [C]
CBL-0063
PNL_DPE LS
BKR_DPE LS - LS2G1
BKR_DPE LS - LS211
BKR_DPE LS - LSHMP1

TCC Name: TCC_108_PNL_DPE LS
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus
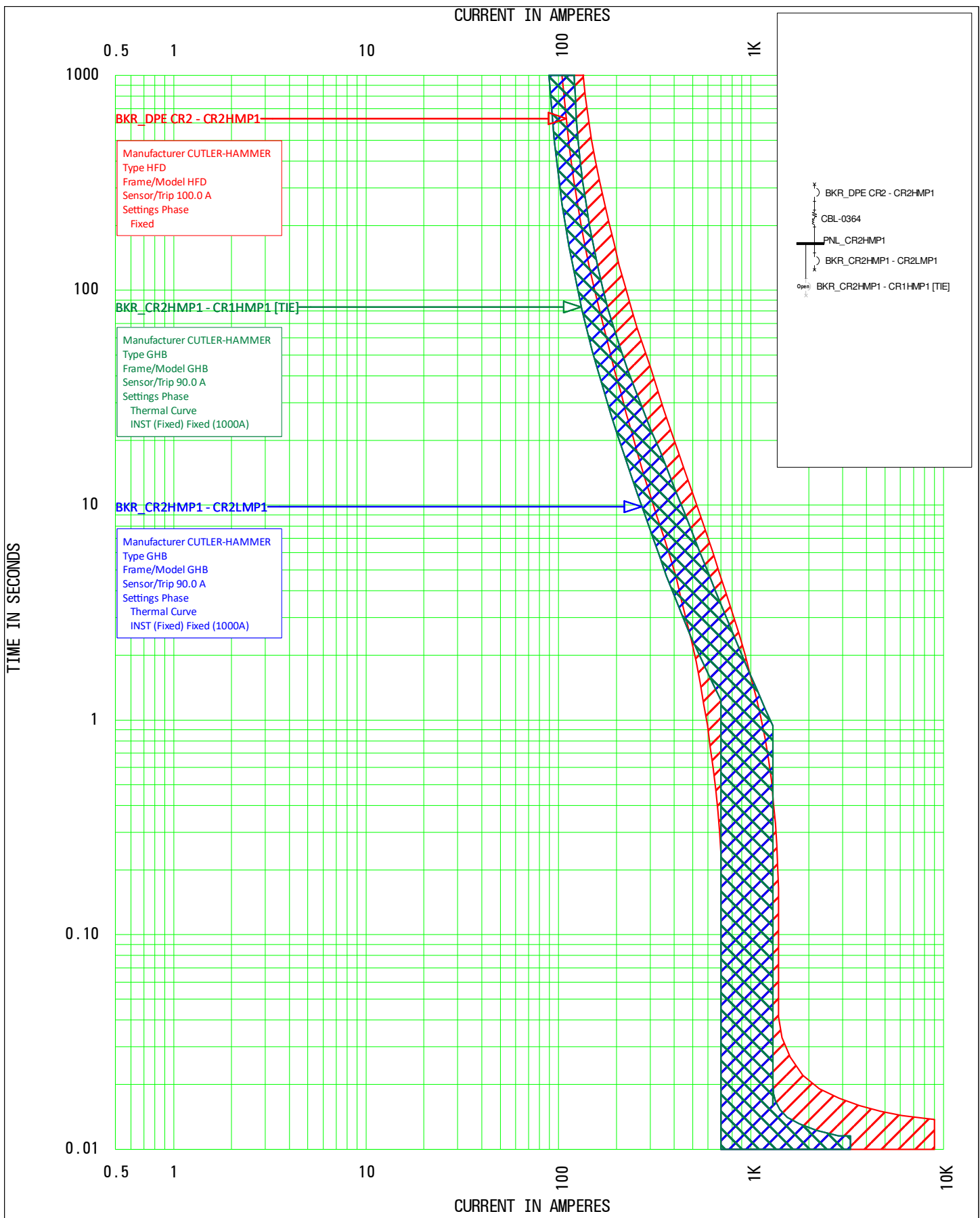
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_MDPE - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS, RMS 520
Frame/Model MDS-616
Sensor/Trip 1200.0 A
Settings Phase
  LTPU (0.4-1.0 x P) 0.7 (840A)
  LTD (2-24 Sec.) 20
  STPU (2-10 x LTPU) 4 (3360A)
  STD (0.1-0.5 Sec.) 0.4 (I^s T On)
  INST (2-14 x P) 6 (7200A)

BKR_MDPE - EMERG SW#3 TIE - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.8 (640A)
  LTD, (2-24 Sec.) 20
  STPU, (2-10 x Ir) 4 (2560A)
  STD, (0.1-0.5 Sec.) 0.3 (I^s T Off)
  INST, (2-12 x P) 6 (4800A)

BKR_MDPE - ATS CB2 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.5 (400A)
  LTD, (2-24 Sec.) 7
  STPU, (2-10 x Ir) 5 (2000A)
  STD, (0.1-0.5 Sec.) 0.2 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_MDPE - ATS CB1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.5 (400A)
  LTD, (2-24 Sec.) 7
  STPU, (2-10 x Ir) 5 (2000A)
  STD, (0.1-0.5 Sec.) 0.2 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_MDPE - ATS CB3 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (150A)
  LTD, (2-24 Sec.) 20
  STPU, (2-10 x Ir) 10 (1500A)
  STD, (0.1-0.5 Sec.) 0.2 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_MDPE - ATS CB4 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (150A)
  LTD, (2-24 Sec.) 15
  STPU, (2-10 x Ir) 10 (1500A)
  STD, (0.1-0.5 Sec.) 0.2 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_MDPE - ATS BOILER [E] - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 1 (400A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 6 (2400A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) 6 (2400A)

BKR_MDPE - ATS LS - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 1 (200A)
  LTD, (2-24 Sec.) 15
  STPU, (2-10 x Ir) 10 (2000A)
  STD, (0.1-0.5 Sec.) 0.2 (I^s T Off)
  INST, (2-12 x P) OFF

TIME IN SECONDS

Legend:
BKR_MDPE - MAIN
SWGR_MDPE [DAHOD]
Open BKR_MDPE - EMERG SW#3 TIE
BKR_MDPE - ATS LS
BKR_MDPE - ATS BOILER[E]
BKR_MDPE - ATS CB4
BKR_MDPE - ATS CB3
BKR_MDPE - ATS CB1
BKR_MDPE - ATS CB2

CURRENT IN AMPERES

TCC Name: TCC_109_SWGR_MDPE [DAHOD]
Project #810133
Recommendation_NEW
Current Scale x 1
Reference Voltage: 480V
Lowell General Hospital
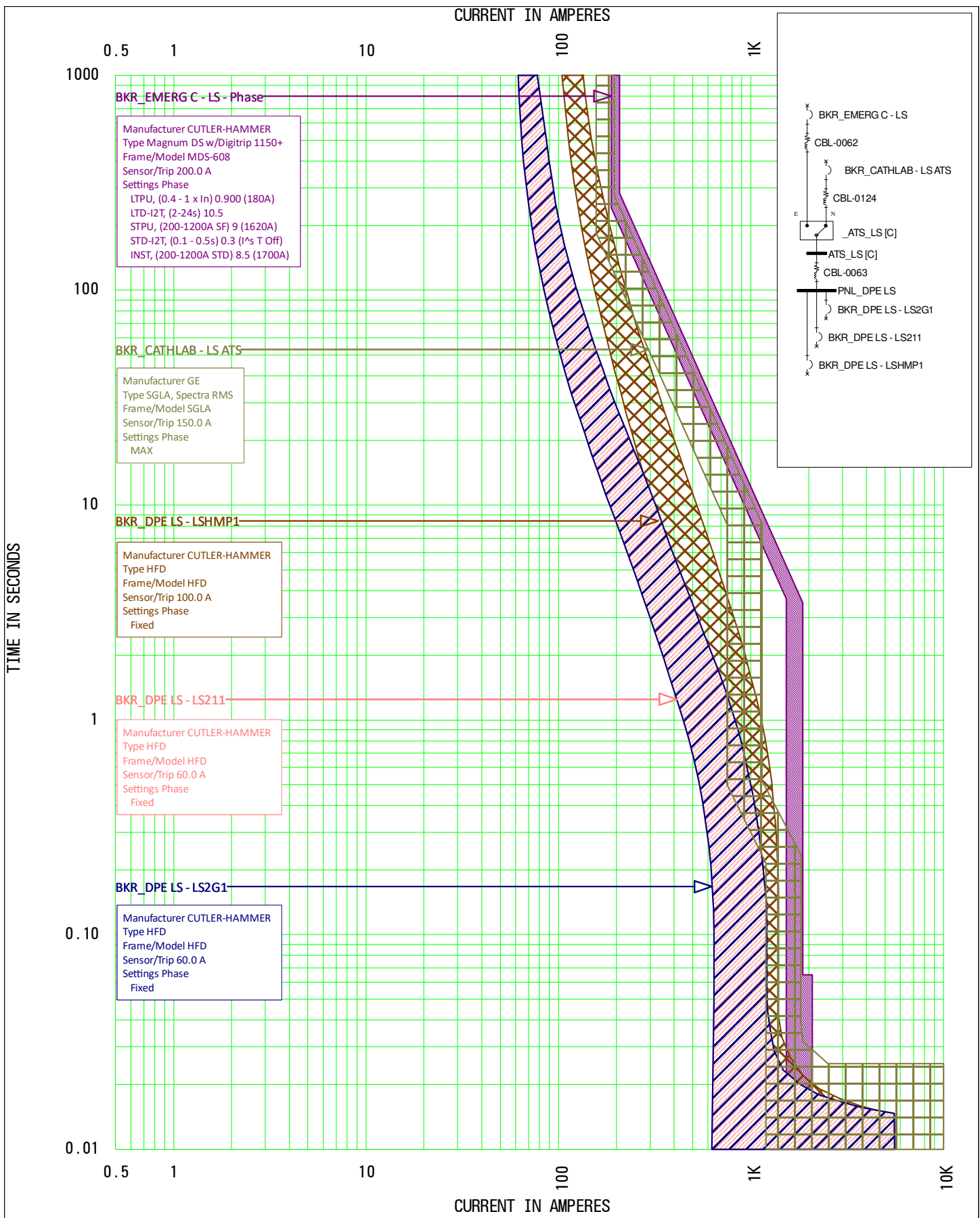Main Campus
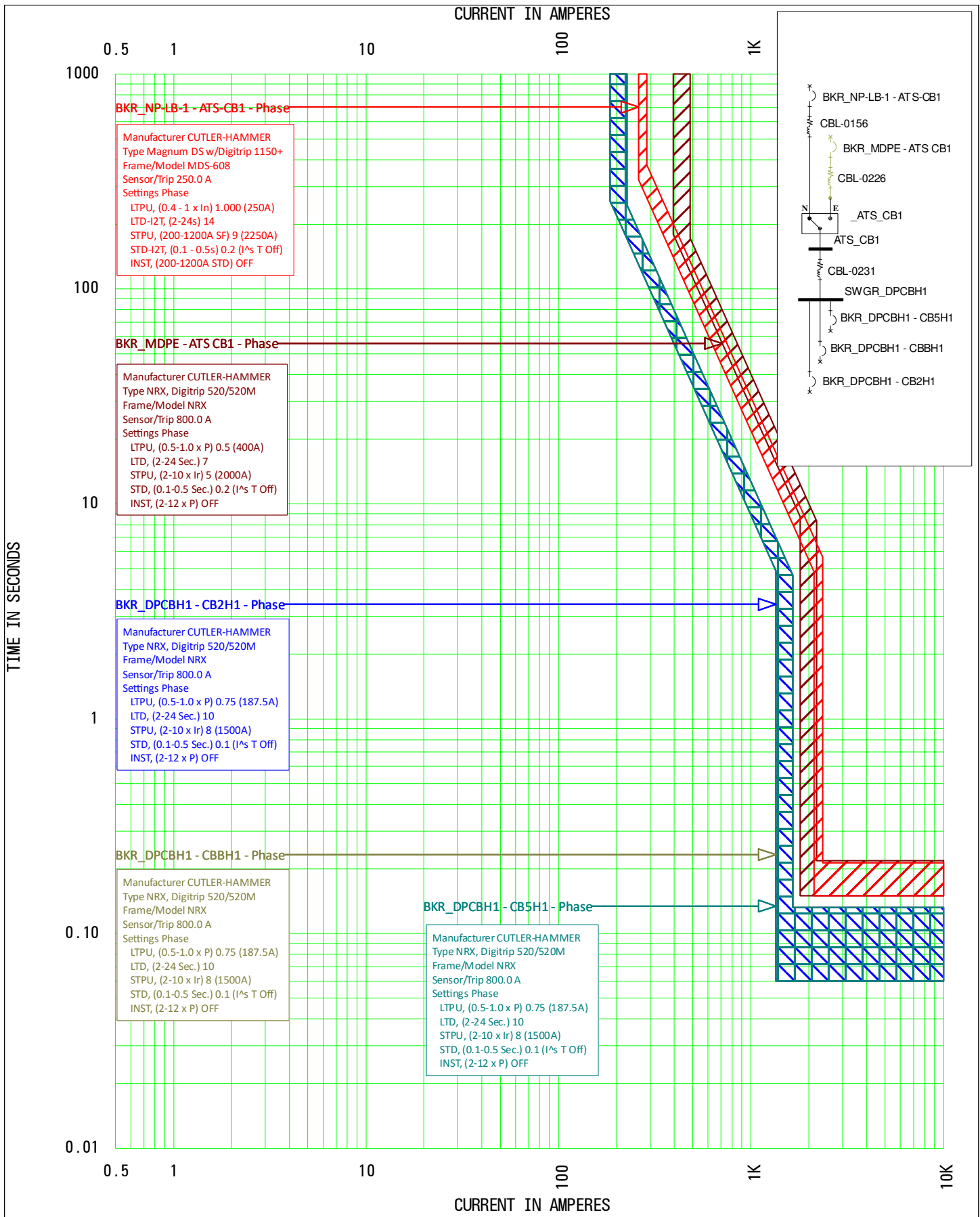
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-1 - ATS-CB1 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 250.0 A
Settings Phase
   LTPU, (0.4 - 1 x In) 1.000 (250A)
   LTD-I2T, (2-24s) 14
   STPU, (200-1200A SF) 9 (2250A)
   STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
   INST, (200-1200A STD) OFF

BKR_MDPE - ATS CB1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
   LTPU, (0.5-1.0 x P) 0.5 (400A)
   LTD, (2-24 Sec.) 7
   STPU, (2-10 x Ir) 5 (2000A)
   STD, (0.1-0.5 Sec.) 0.2 (I^s T Off)
   INST, (2-12 x P) OFF

BKR_DPCBH1 - CB2H1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
   LTPU, (0.5-1.0 x P) 0.75 (187.5A)
   LTD, (2-24 Sec.) 10
   STPU, (2-10 x Ir) 8 (1500A)
   STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
   INST, (2-12 x P) OFF

BKR_DPCBH1 - CBBH1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
   LTPU, (0.5-1.0 x P) 0.75 (187.5A)
   LTD, (2-24 Sec.) 10
   STPU, (2-10 x Ir) 8 (1500A)
   STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
   INST, (2-12 x P) OFF

BKR_DPCBH1 - CB5H1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
   LTPU, (0.5-1.0 x P) 0.75 (187.5A)
   LTD, (2-24 Sec.) 10
   STPU, (2-10 x Ir) 8 (1500A)
   STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
   INST, (2-12 x P) OFF

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram labels:
- BKR_NP-LB-1 - ATS-CB1
- CBL-0156
- BKR_MDPE - ATS CB1
- CBL-0226
- _ATS_CB1
- ATS_CB1
- CBL-0231
- SWGR_DPCBH1
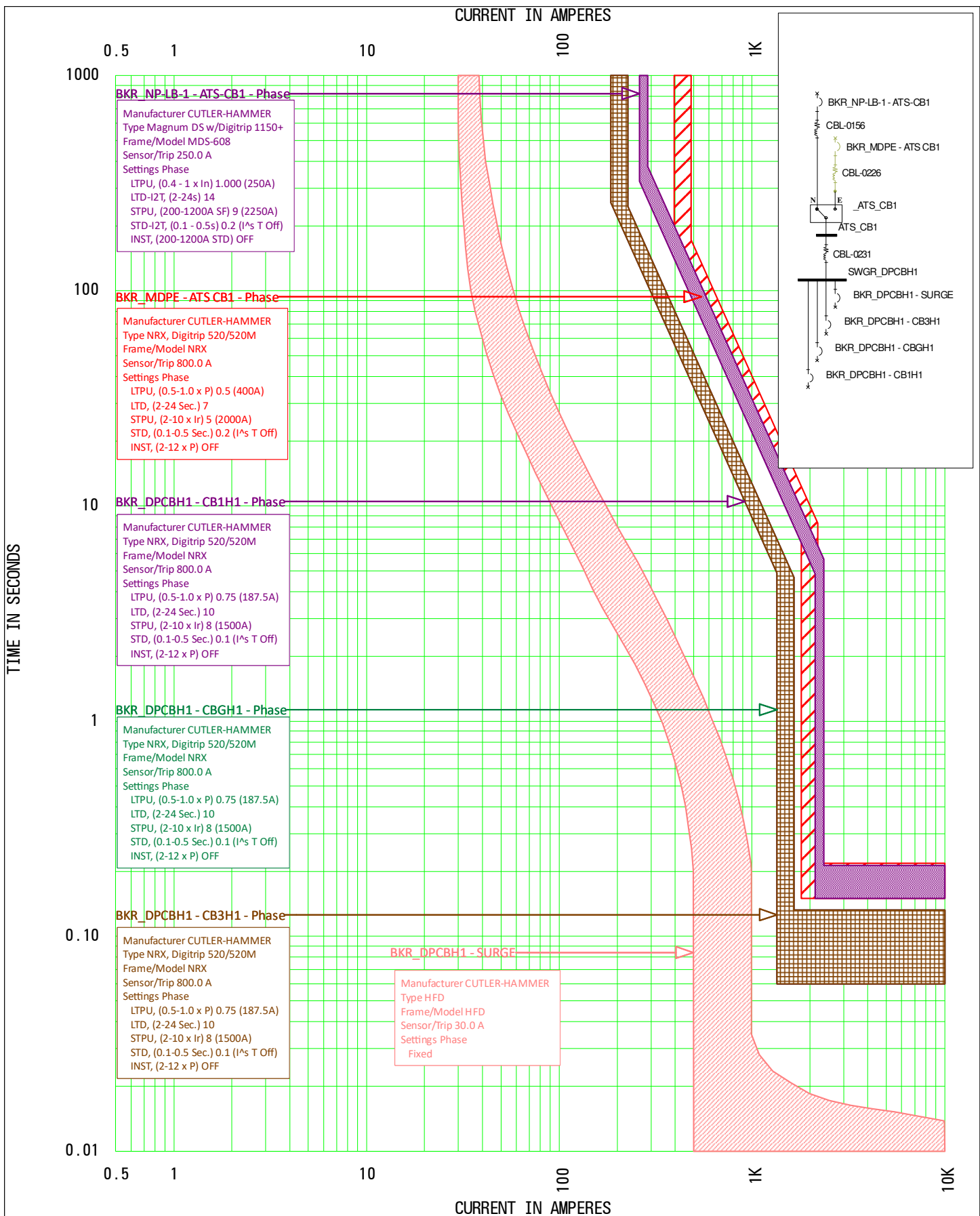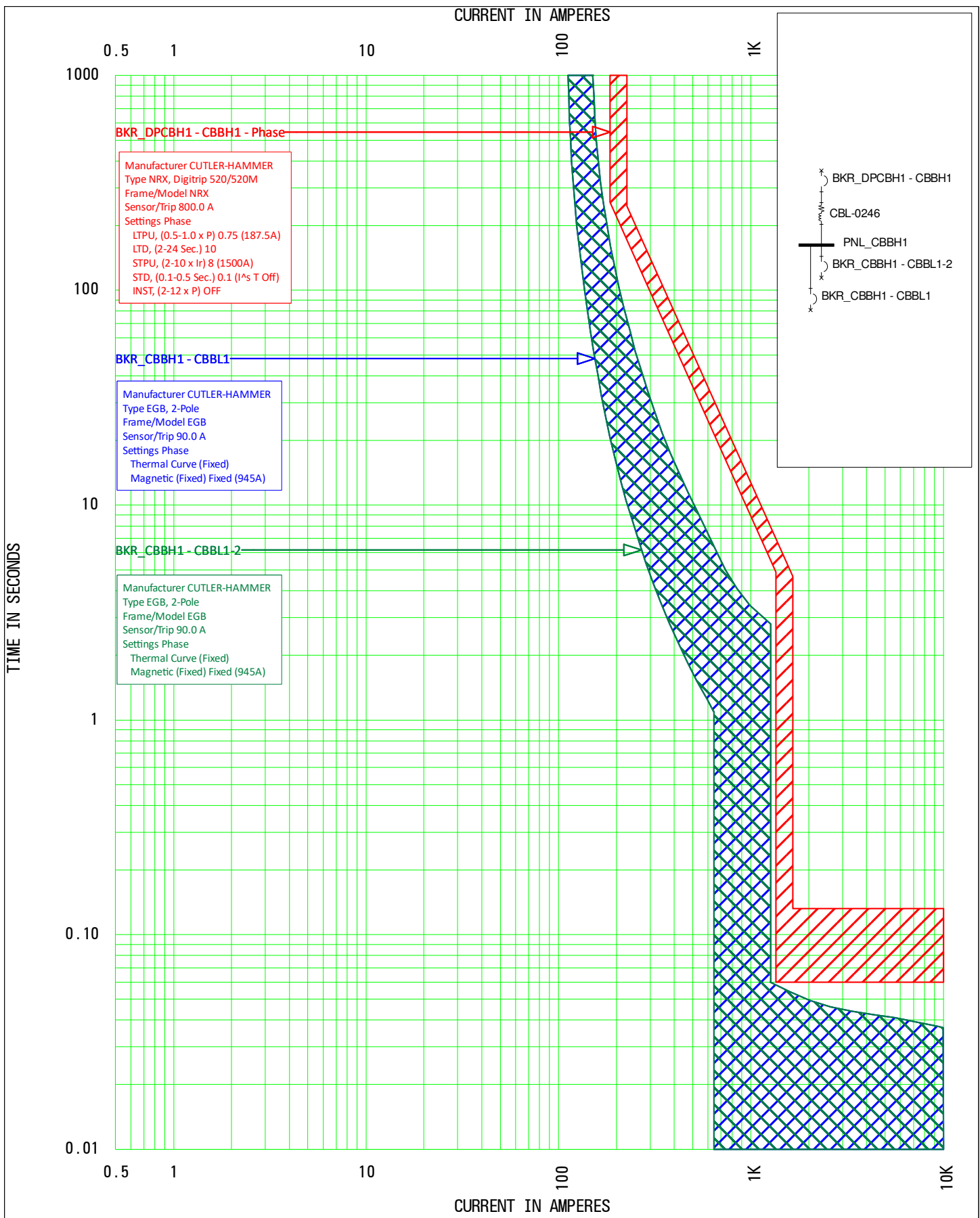- BKR_DPCBH1 - CB5H1
- BKR_DPCBH1 - CBBH1
- BKR_DPCBH1 - CB2H1

TCC Name: TCC_110-1_SWGR_DPCBH1
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-1 - ATS-CB1 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 250.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (250A)
  LTD-I2T, (2-24s) 14
  STPU, (200-1200A SF) 9 (2250A)
  STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_MDPE - ATS CB1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.5 (400A)
  LTD, (2-24 Sec.) 7
  STPU, (2-10 x Ir) 5 (2000A)
  STD, (0.1-0.5 Sec.) 0.2 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCBH1 - CB1H1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (187.5A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 8 (1500A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCBH1 - CBGH1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (187.5A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 8 (1500A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCBH1 - CB3H1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (187.5A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 8 (1500A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCBH1 - SURGE

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 30.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

BKR_NP-LB-1 - ATS-CB1
CBL-0156
BKR_MDPE - ATS CB1
CBL-0226
_ATS_CB1
ATS_CB1
CBL-0231
SWGR_DPCBH1
BKR_DPCBH1 - SURGE
BKR_DPCBH1 - CB3H1
BKR_DPCBH1 - CBGH1
BKR_DPCBH1 - CB1H1

TCC Name: TCC_110-2_SWGR_DPCBH1
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
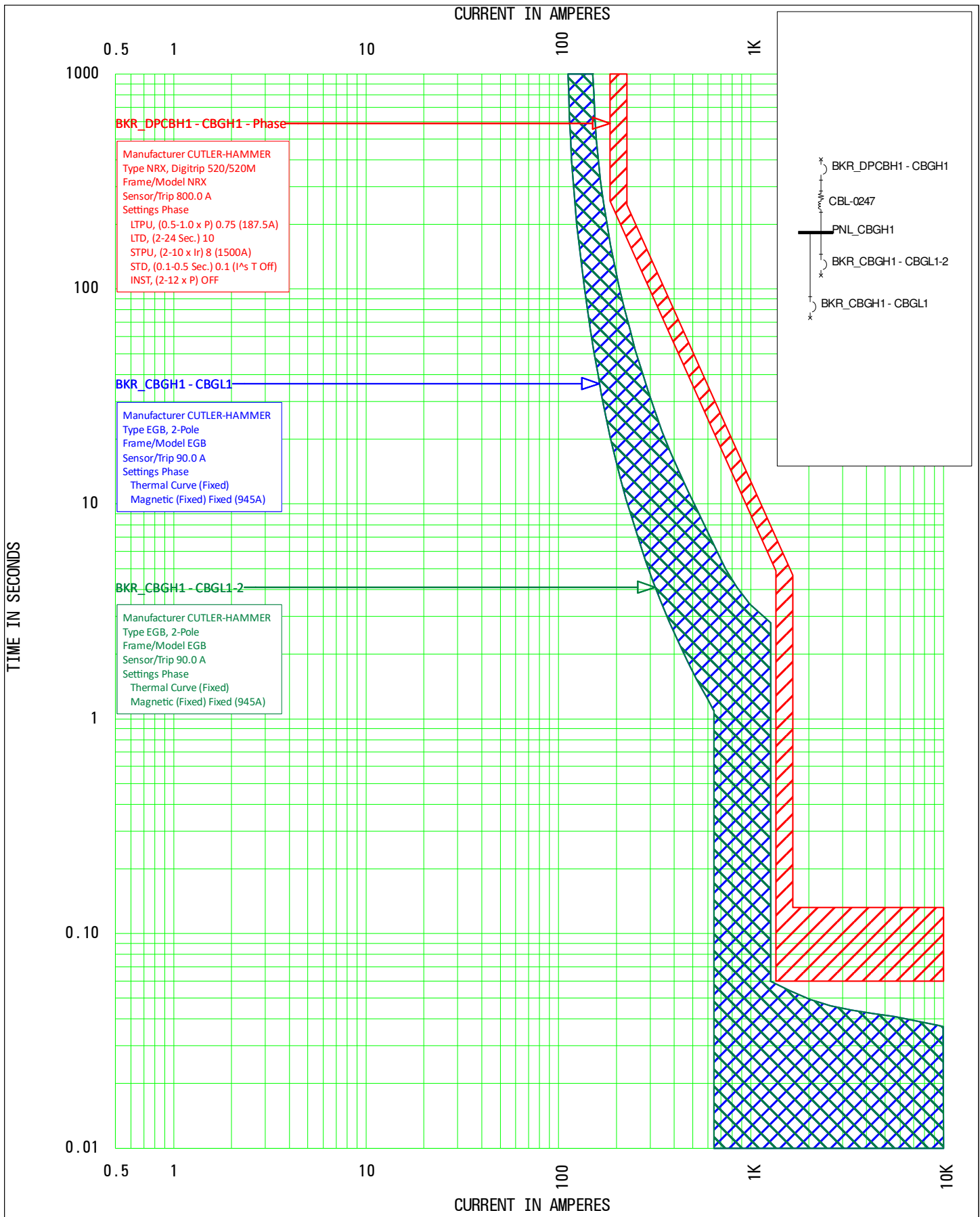Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPCBH1 - CBBH1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (187.5A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 8 (1500A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_CBBH1 - CBBL1

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_CBBH1 - CBBL1-2

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_DPCBH1 - CBBH1
CBL-0246
PNL_CBBH1
BKR_CBBH1 - CBBL1-2
BKR_CBBH1 - CBBL1

TCC Name: TCC_111_PNL_CBBH1
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus
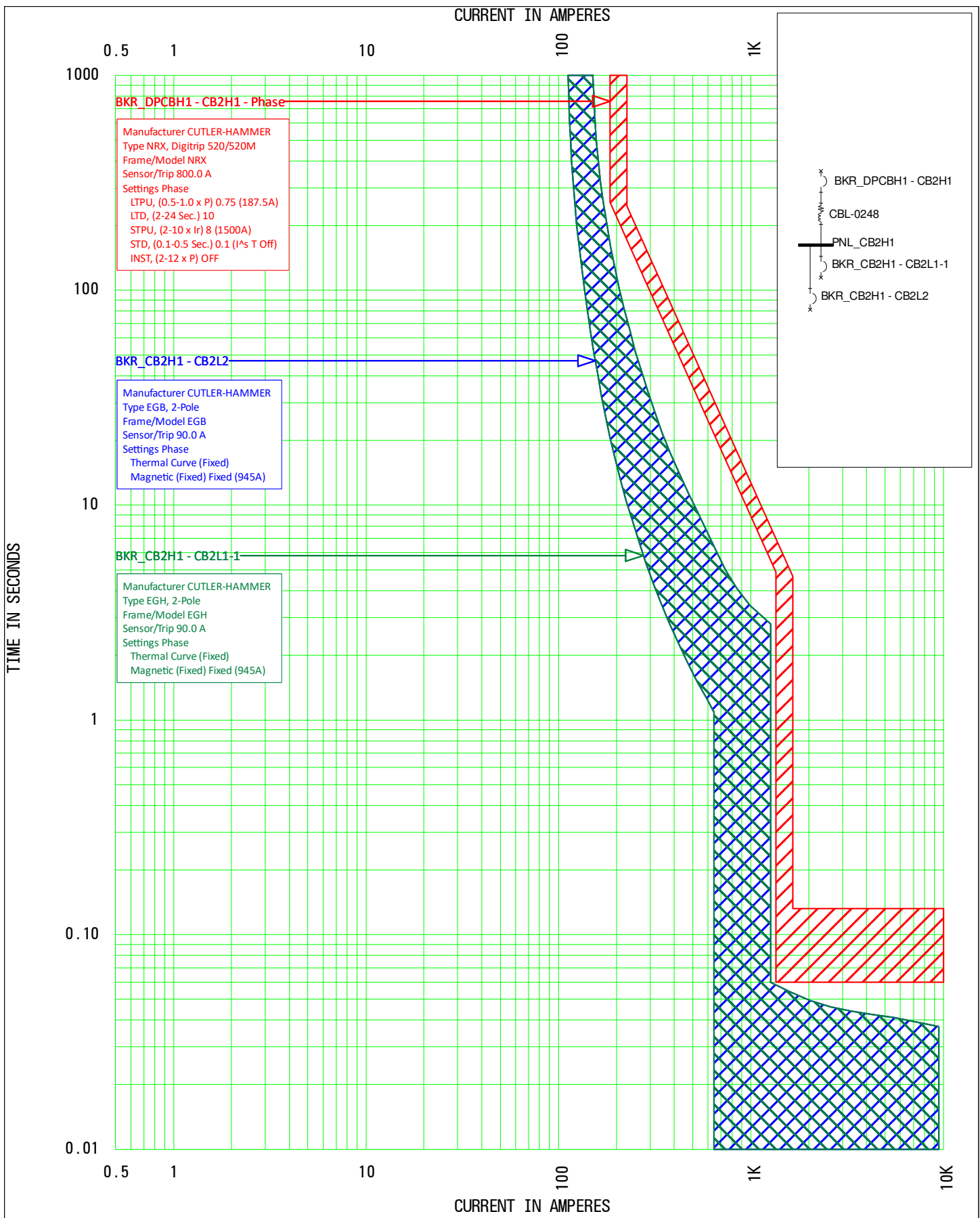
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPCBH1 - CBGH1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (187.5A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 8 (1500A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_CBGH1 - CBGL1

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_CBGH1 - CBGL1-2

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram labels:
- BKR_DPCBH1 - CBGH1
- CBL-0247
- PNL_CBGH1
- BKR_CBGH1 - CBGL1-2
- BKR_CBGH1 - CBGL1

TCC Name: TCC_112_PNL_CBGH1
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPCBH1 - CB2H1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (187.5A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 8 (1500A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_CB2H1 - CB2L2

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_CB2H1 - CB2L1-1

Manufacturer CUTLER-HAMMER
Type EGH, 2-Pole
Frame/Model EGH
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_DPCBH1 - CB2H1

CBL-0248

PNL_CB2H1

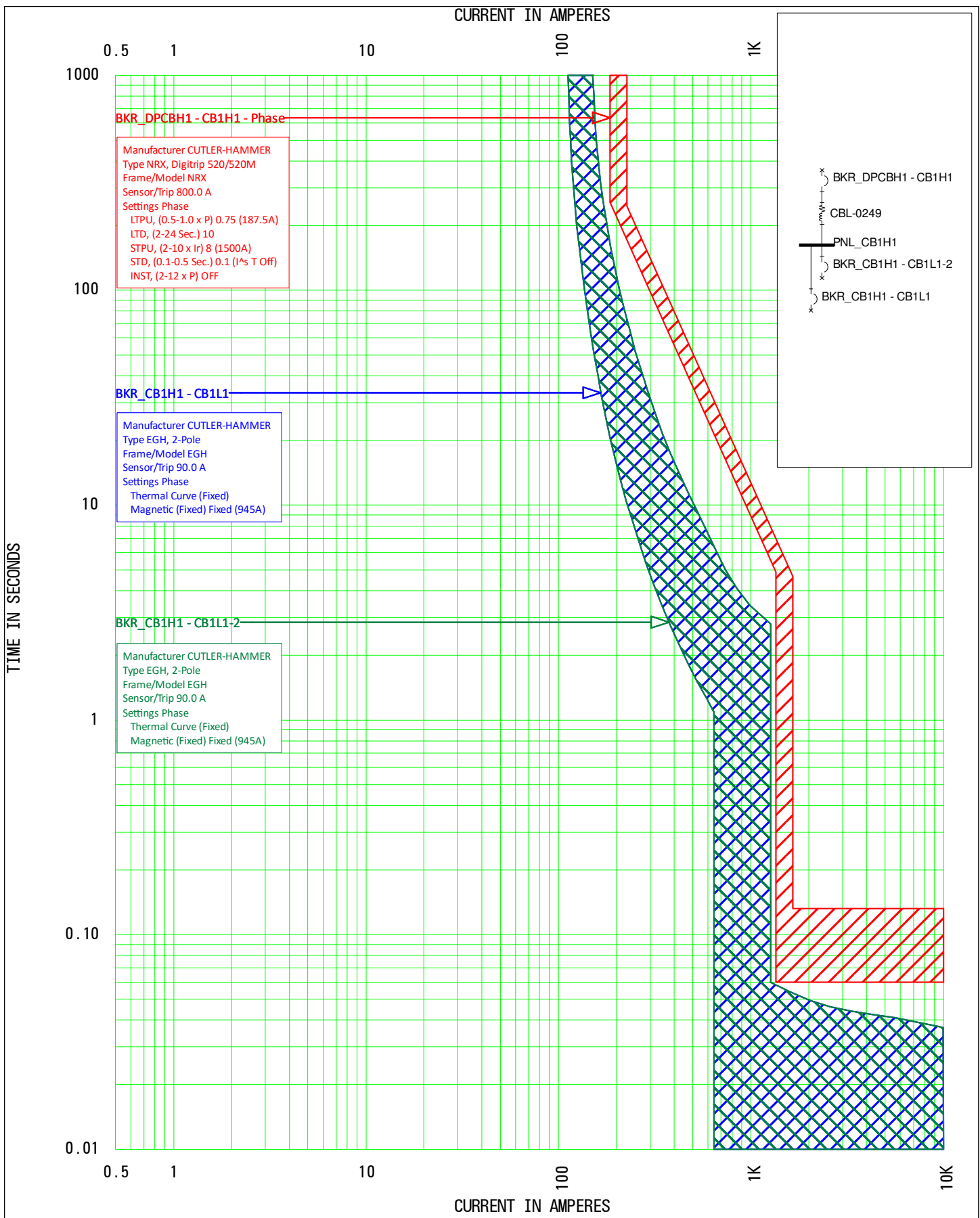BKR_CB2H1 - CB2L1-1

BKR_CB2H1 - CB2L2

TCC Name: TCC_113_PNL_CB2H1
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPCBH1 - CB1H1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
    LTPU, (0.5-1.0 x P) 0.75 (187.5A)
    LTD, (2-24 Sec.) 10
    STPU, (2-10 x Ir) 8 (1500A)
    STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
    INST, (2-12 x P) OFF

BKR_CB1H1 - CB1L1

Manufacturer CUTLER-HAMMER
Type EGH, 2-Pole
Frame/Model EGH
Sensor/Trip 90.0 A
Settings Phase
    Thermal Curve (Fixed)
    Magnetic (Fixed) Fixed (945A)

BKR_CB1H1 - CB1L1-2

Manufacturer CUTLER-HAMMER
Type EGH, 2-Pole
Frame/Model EGH
Sensor/Trip 90.0 A
Settings Phase
    Thermal Curve (Fixed)
    Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_DPCBH1 - CB1H1
CBL-0249
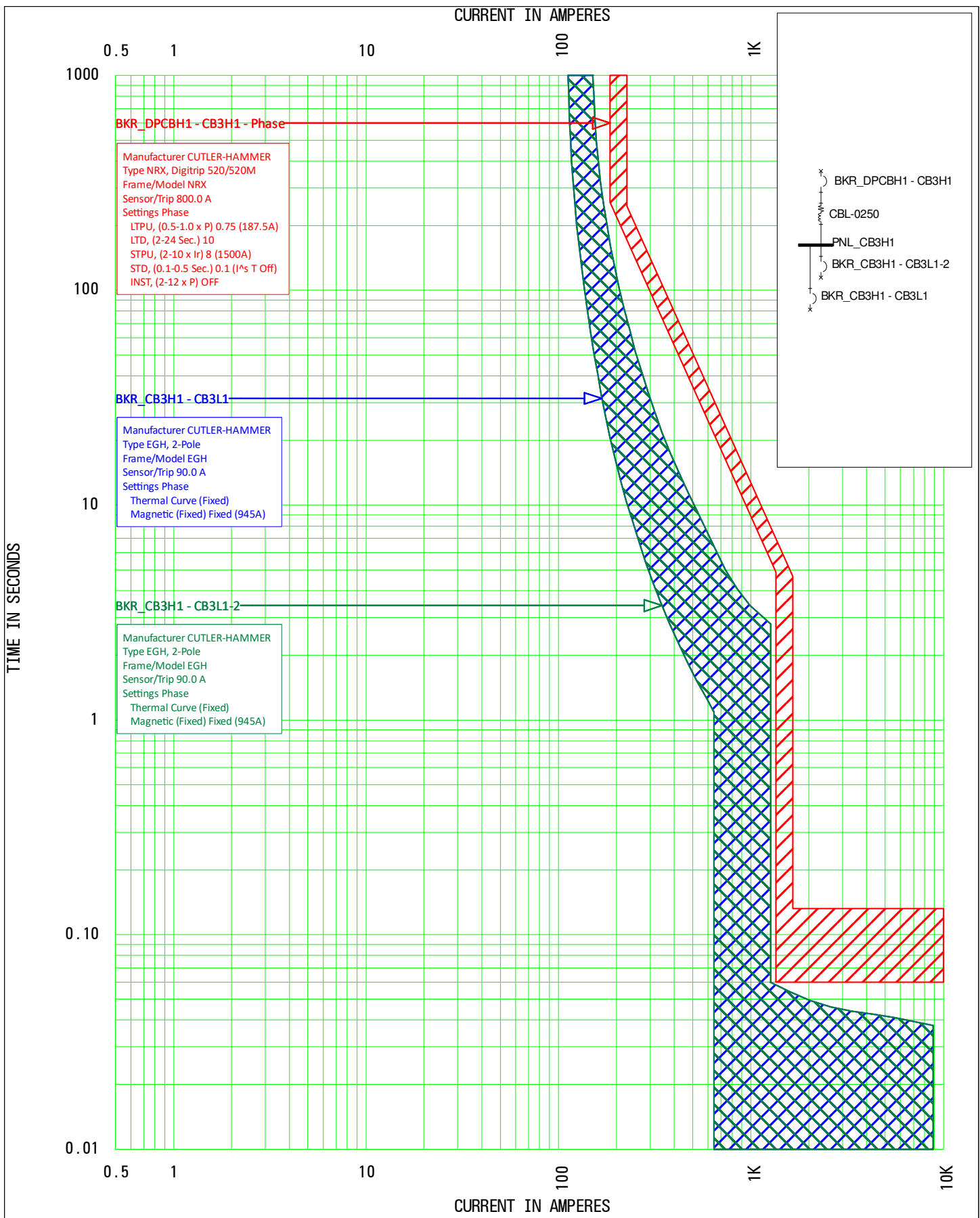PNL_CB1H1
BKR_CB1H1 - CB1L1-2
BKR_CB1H1 - CB1L1

TCC Name: TCC_114_PNL_CB1H1
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPCBH1 - CB3H1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (187.5A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 8 (1500A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_CB3H1 - CB3L1

Manufacturer CUTLER-HAMMER
Type EGH, 2-Pole
Frame/Model EGH
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_CB3H1 - CB3L1-2

Manufacturer CUTLER-HAMMER
Type EGH, 2-Pole
Frame/Model EGH
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_DPCBH1 - CB3H1
CBL-0250
PNL_CB3H1
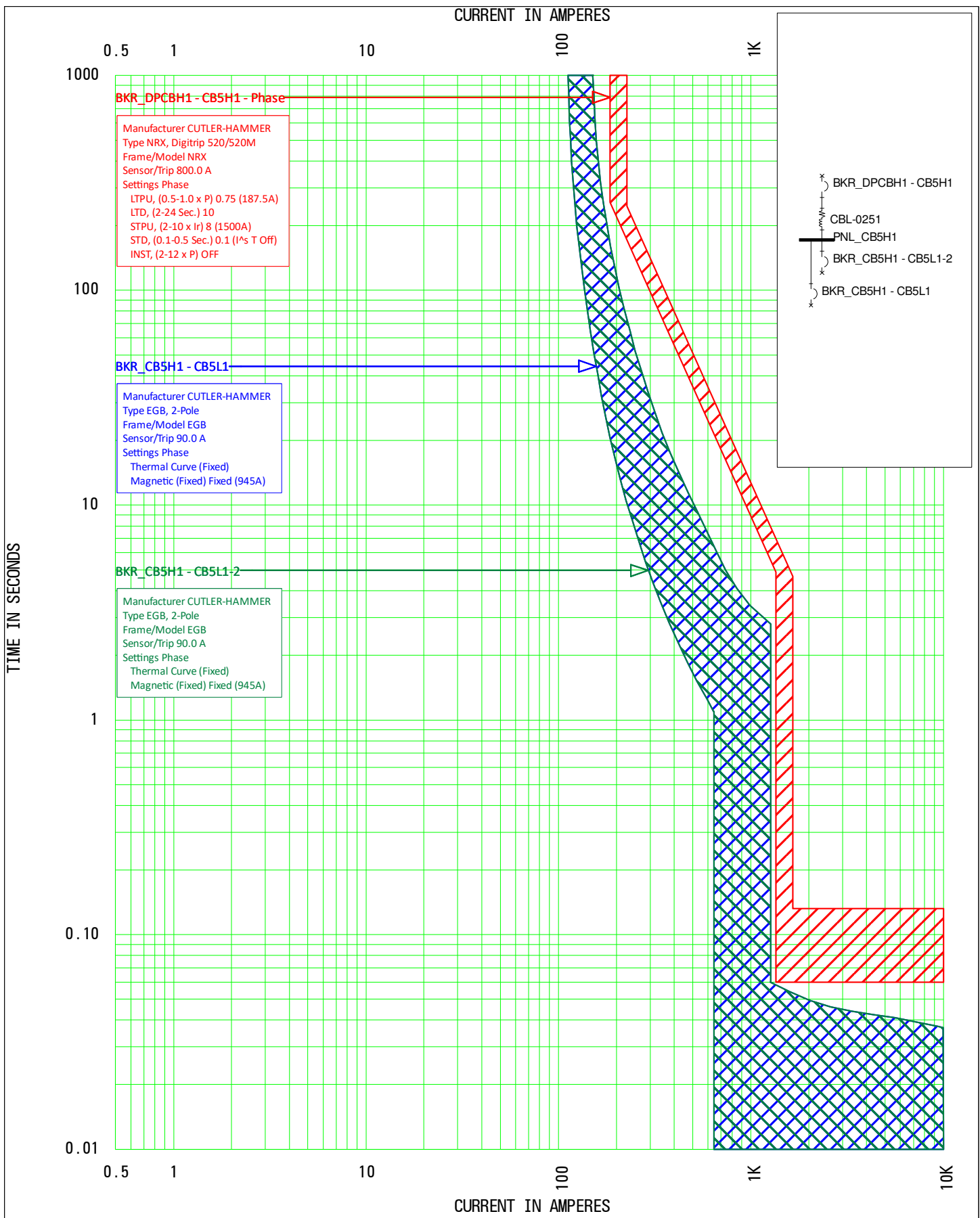BKR_CB3H1 - CB3L1-2
BKR_CB3H1 - CB3L1

TCC Name: TCC_115_PNL_CB3H1
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPCBH1 - CB5H1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (187.5A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 8 (1500A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_CB5H1 - CB5L1

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_CB5H1 - CB5L1-2

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_DPCBH1 - CB5H1
CBL-0251
PNL_CB5H1
BKR_CB5H1 - CB5L1-2
BKR_CB5H1 - CB5L1

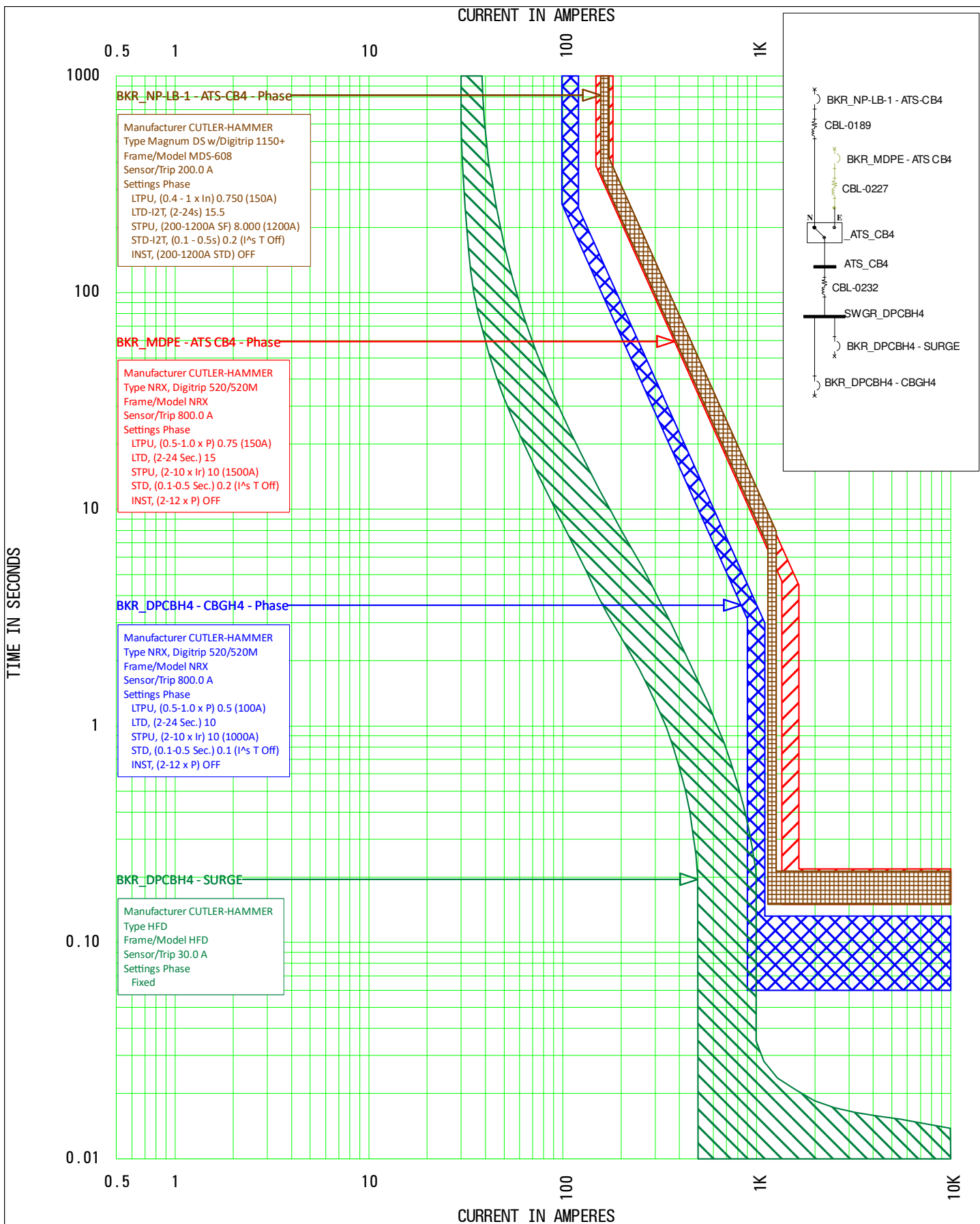TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_116_PNL_CB5H1
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-1 - ATS-CB4 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.750 (150A)
  LTD-I2T, (2-24s) 15.5
  STPU, (200-1200A SF) 8.000 (1200A)
  STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_MDPE - ATS CB4 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (150A)
  LTD, (2-24 Sec.) 15
  STPU, (2-10 x Ir) 10 (1500A)
  STD, (0.1-0.5 Sec.) 0.2 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCBH4 - CBGH4 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.5 (100A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 10 (1000A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCBH4 - SURGE

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 30.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

BKR_NP-LB-1 - ATS-CB4
CBL-0189
BKR_MDPE - ATS CB4
CBL-0227
_ATS_CB4
ATS_CB4
CBL-0232
SWGR_DPCBH4
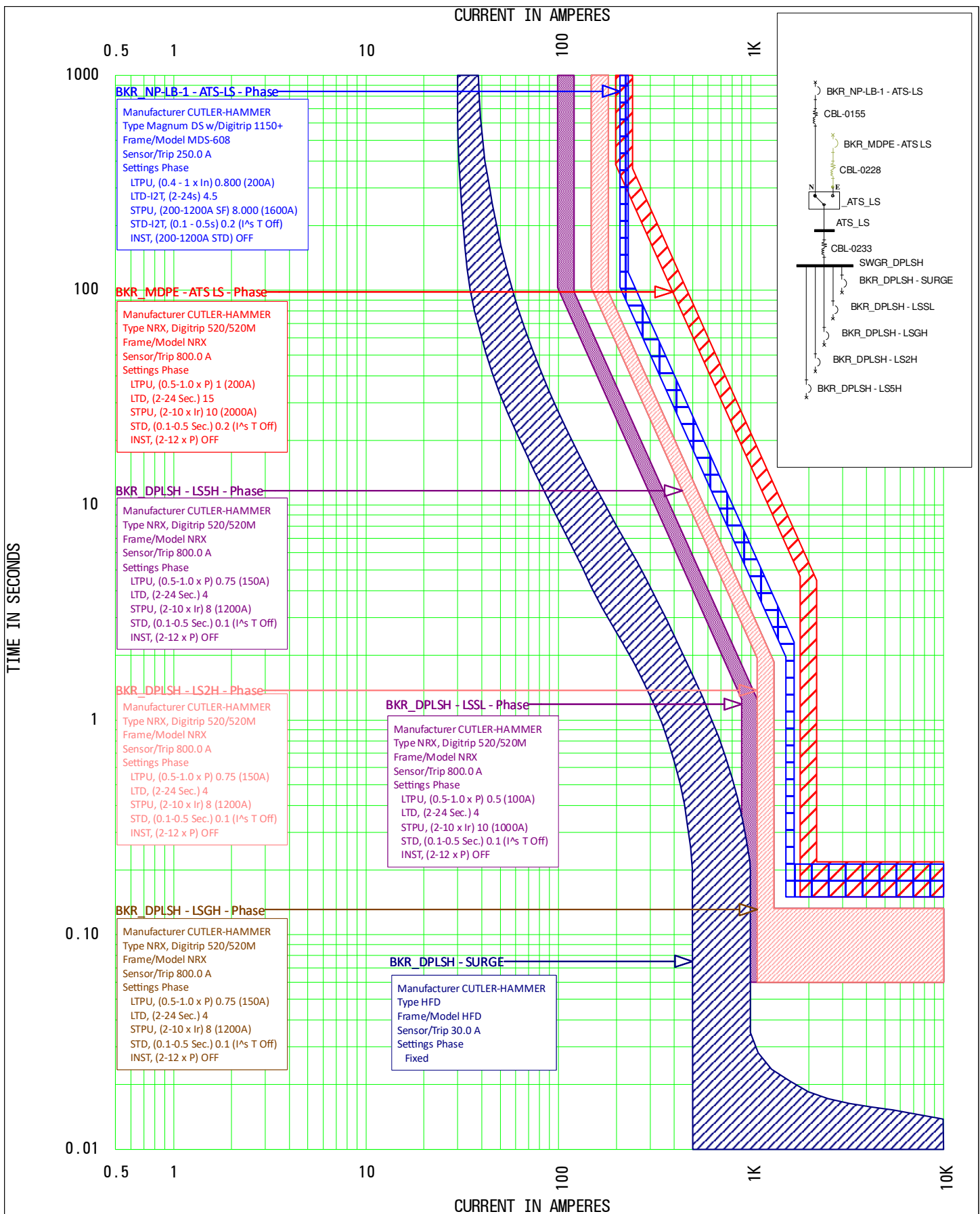BKR_DPCBH4 - SURGE
BKR_DPCBH4 - CBGH4

TCC Name: TCC_117_SWGR_DPCBH4
Project #810133
Recommendation_NEW
Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

BKR_NP-LB-1 - ATS-LS - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 250.0 A
Settings Phase
 LTPU, (0.4 - 1 x In) 0.800 (200A)
 LTD-I2T, (2-24s) 4.5
 STPU, (200-1200A SF) 8.000 (1600A)
 STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
 INST, (200-1200A STD) OFF

BKR_MDPE - ATS LS - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
 LTPU, (0.5-1.0 x P) 1 (200A)
 LTD, (2-24 Sec.) 15
 STPU, (2-10 x Ir) 10 (2000A)
 STD, (0.1-0.5 Sec.) 0.2 (I^s T Off)
 INST, (2-12 x P) OFF

BKR_DPLSH - LS5H - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
 LTPU, (0.5-1.0 x P) 0.75 (150A)
 LTD, (2-24 Sec.) 4
 STPU, (2-10 x Ir) 8 (1200A)
 STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
 INST, (2-12 x P) OFF

BKR_DPLSH - LS2H - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
 LTPU, (0.5-1.0 x P) 0.75 (150A)
 LTD, (2-24 Sec.) 4
 STPU, (2-10 x Ir) 8 (1200A)
 STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
 INST, (2-12 x P) OFF

BKR_DPLSH - LSSL - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
 LTPU, (0.5-1.0 x P) 0.5 (100A)
 LTD, (2-24 Sec.) 4
 STPU, (2-10 x Ir) 10 (1000A)
 STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
 INST, (2-12 x P) OFF

BKR_DPLSH - LSGH - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
 LTPU, (0.5-1.0 x P) 0.75 (150A)
 LTD, (2-24 Sec.) 4
 STPU, (2-10 x Ir) 8 (1200A)
 STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
 INST, (2-12 x P) OFF

BKR_DPLSH - SURGE - Phase

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 30.0 A
Settings Phase
 Fixed

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram labels:
BKR_NP-LB-1 - ATS-LS
CBL-0155
BKR_MDPE - ATS LS
CBL-0228
ATS_LS
ATS_LS
CBL-0233
SWGR_DPLSH
BKR_DPLSH - SURGE
BKR_DPLSH - LSSL
BKR_DPLSH - LSGH
BKR_DPLSH - LS2H
BKR_DPLSH - LS5H

TCC Name: TCC_118_SWGR_DPLSH
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

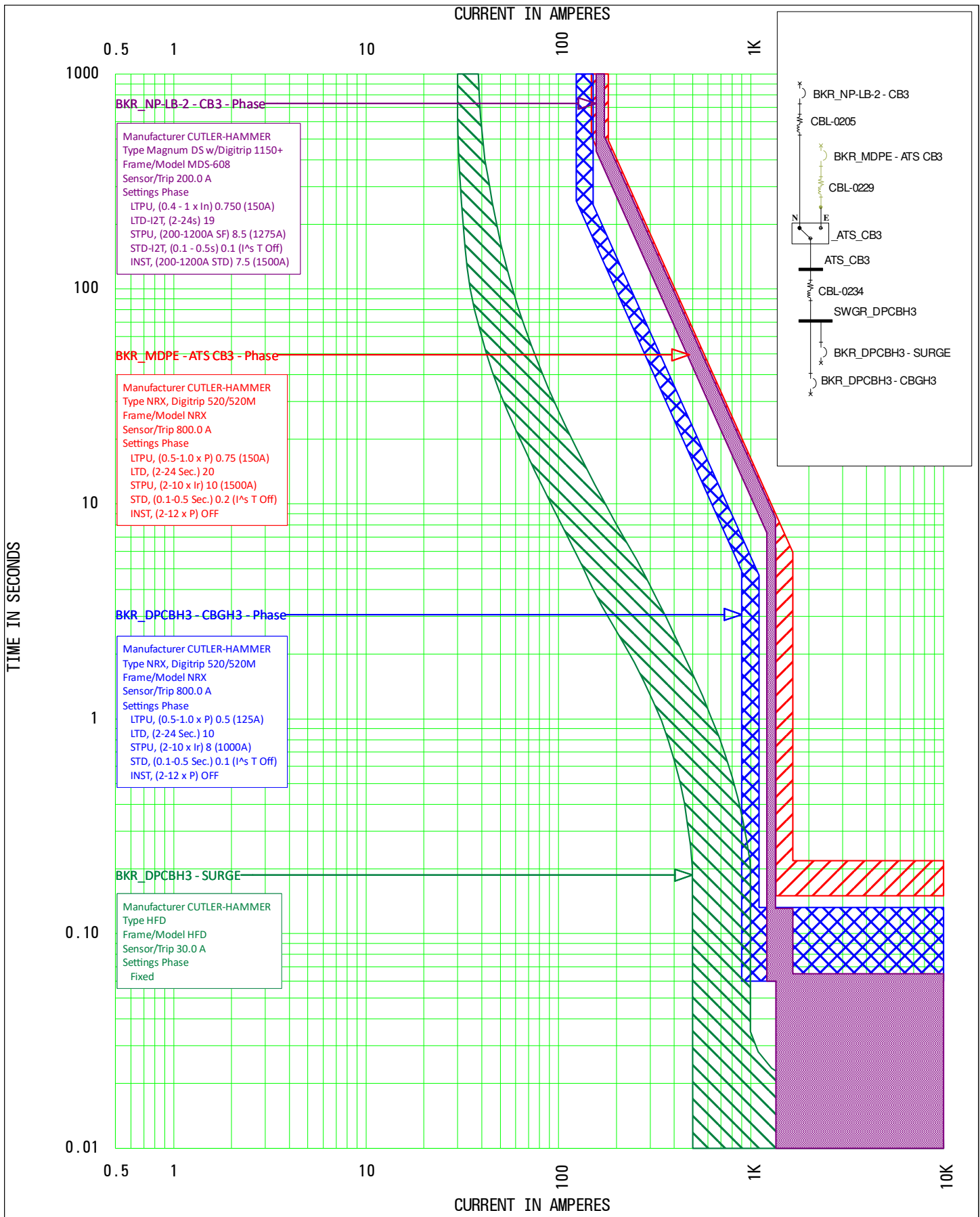CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-2 - CB3 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.750 (150A)
  LTD-I2T, (2-24s) 19
  STPU, (200-1200A SF) 8.5 (1275A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) 7.5 (1500A)

BKR_MDPE - ATS CB3 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (150A)
  LTD, (2-24 Sec.) 20
  STPU, (2-10 x Ir) 10 (1500A)
  STD, (0.1-0.5 Sec.) 0.2 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCBH3 - CBGH3 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.5 (125A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 8 (1000A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCBH3 - SURGE

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 30.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

BKR_NP-LB-2 - CB3
CBL-0205
BKR_MDPE - ATS CB3
CBL-0229
N   E
ATS_CB3
ATS_CB3
CBL-0234
SWGR_DPCBH3
BKR_DPCBH3 - SURGE
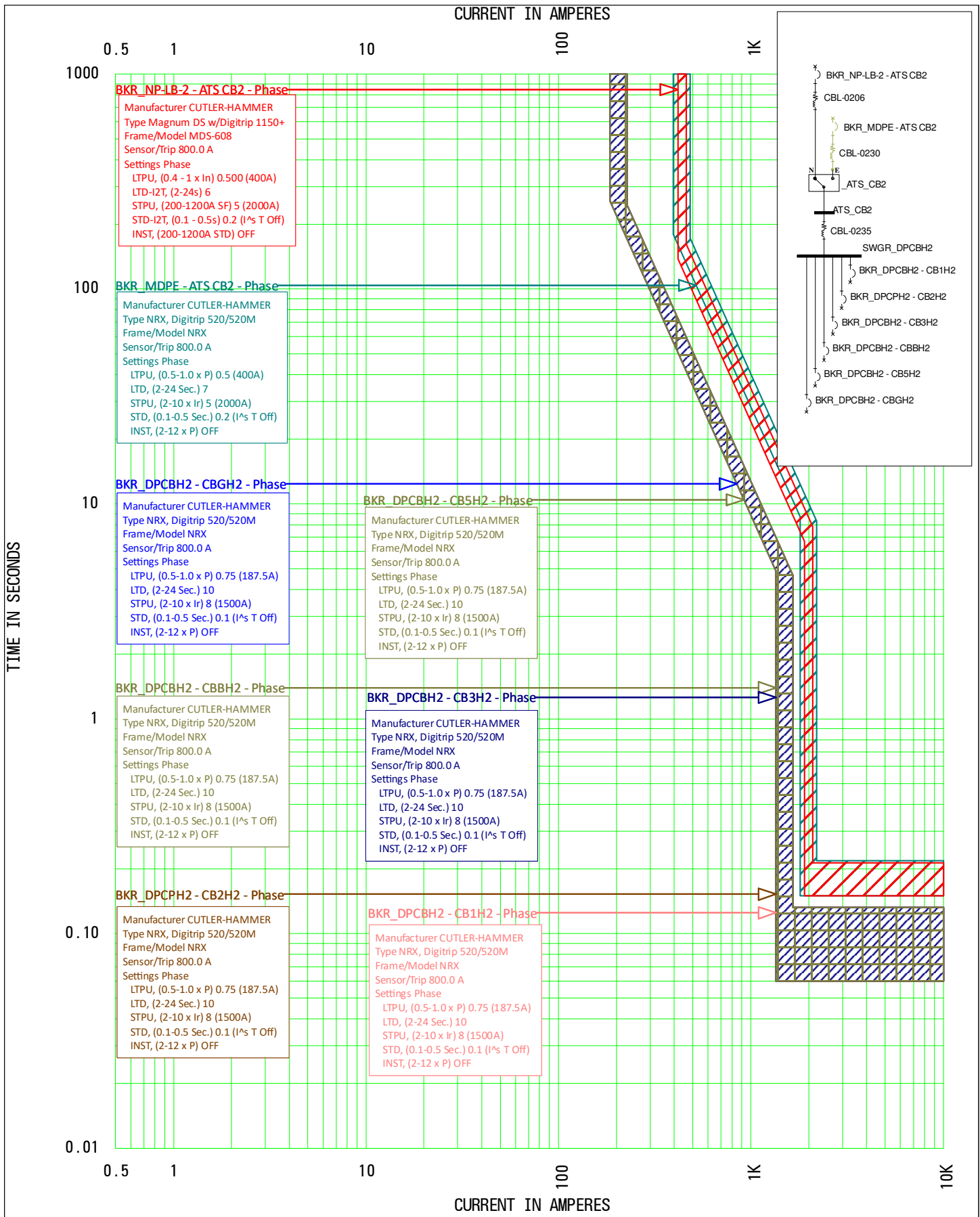BKR_DPCBH3 - CBGH3

TCC Name: TCC_119_SWGR_DPC BH3
Project #810133
Recommendation_NEW   Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus
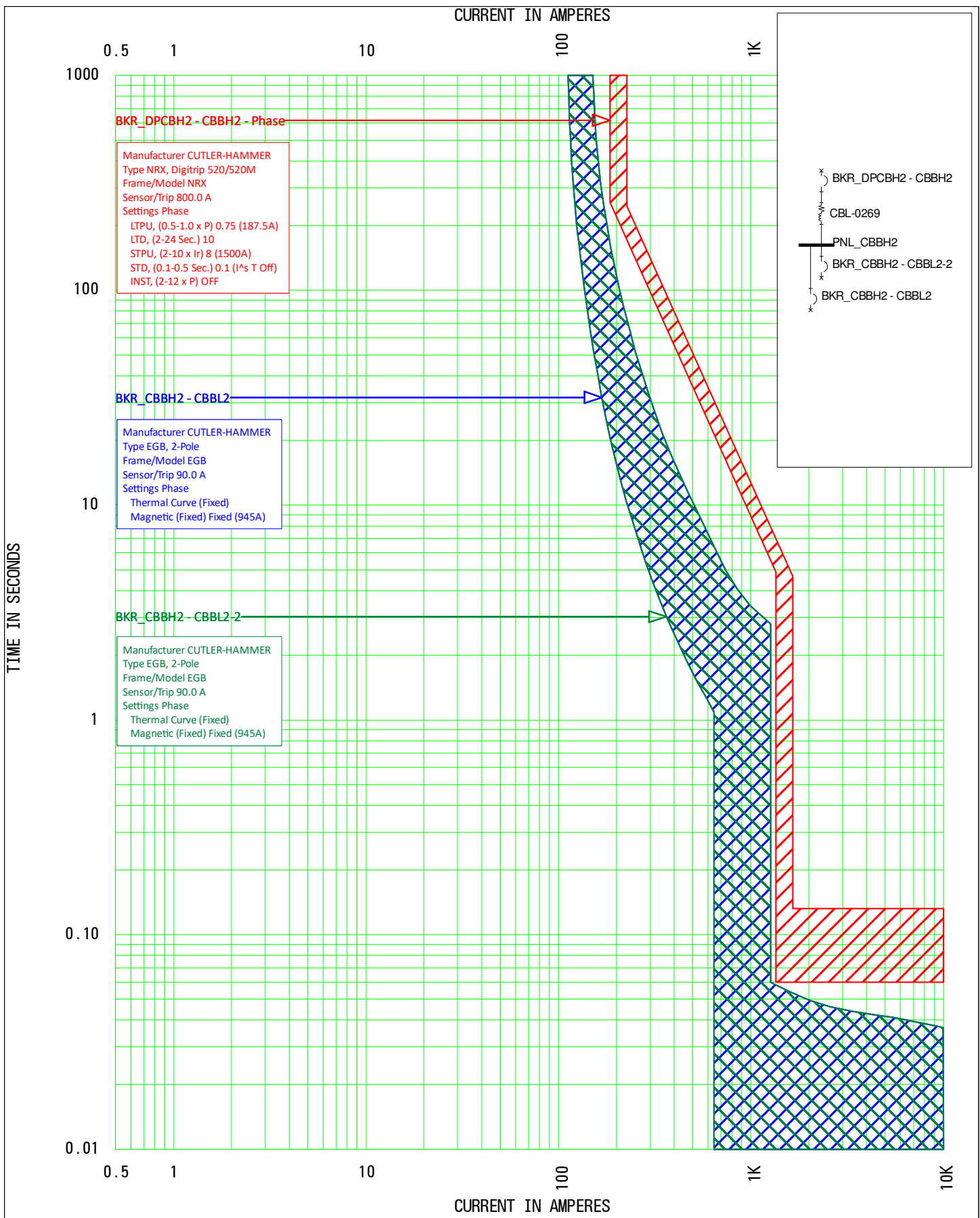
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-2 - ATS CB2 - Phase
Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.500 (400A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 5 (2000A)
  STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_MDPE - ATS CB2 - Phase
Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.5 (400A)
  LTD, (2-24 Sec.) 7
  STPU, (2-10 x Ir) 5 (2000A)
  STD, (0.1-0.5 Sec.) 0.2 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCBH2 - CBGH2 - Phase
Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (187.5A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 8 (1500A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCBH2 - CB5H2 - Phase
Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (187.5A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 8 (1500A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCBH2 - CBBH2 - Phase
Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (187.5A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 8 (1500A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCBH2 - CB3H2 - Phase
Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (187.5A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 8 (1500A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCPH2 - CB2H2 - Phase
Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (187.5A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 8 (1500A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCBH2 - CB1H2 - Phase
Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (187.5A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 8 (1500A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

TIME IN SECONDS

One-line diagram:
BKR_NP-LB-2 - ATS CB2
CBL-0206
BKR_MDPE - ATS CB2
CBL-0230
_ATS_CB2
ATS_CB2
CBL-0235
SWGR_DPCBH2
BKR_DPCBH2 - CB1H2
BKR_DPCPH2 - CB2H2
BKR_DPCBH2 - CB3H2
BKR_DPCBH2 - CBBH2
BKR_DPCBH2 - CB5H2
BKR_DPCBH2 - CBGH2

CURRENT IN AMPERES

TCC Name: TCC_120_SWGR_DPCBH2
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
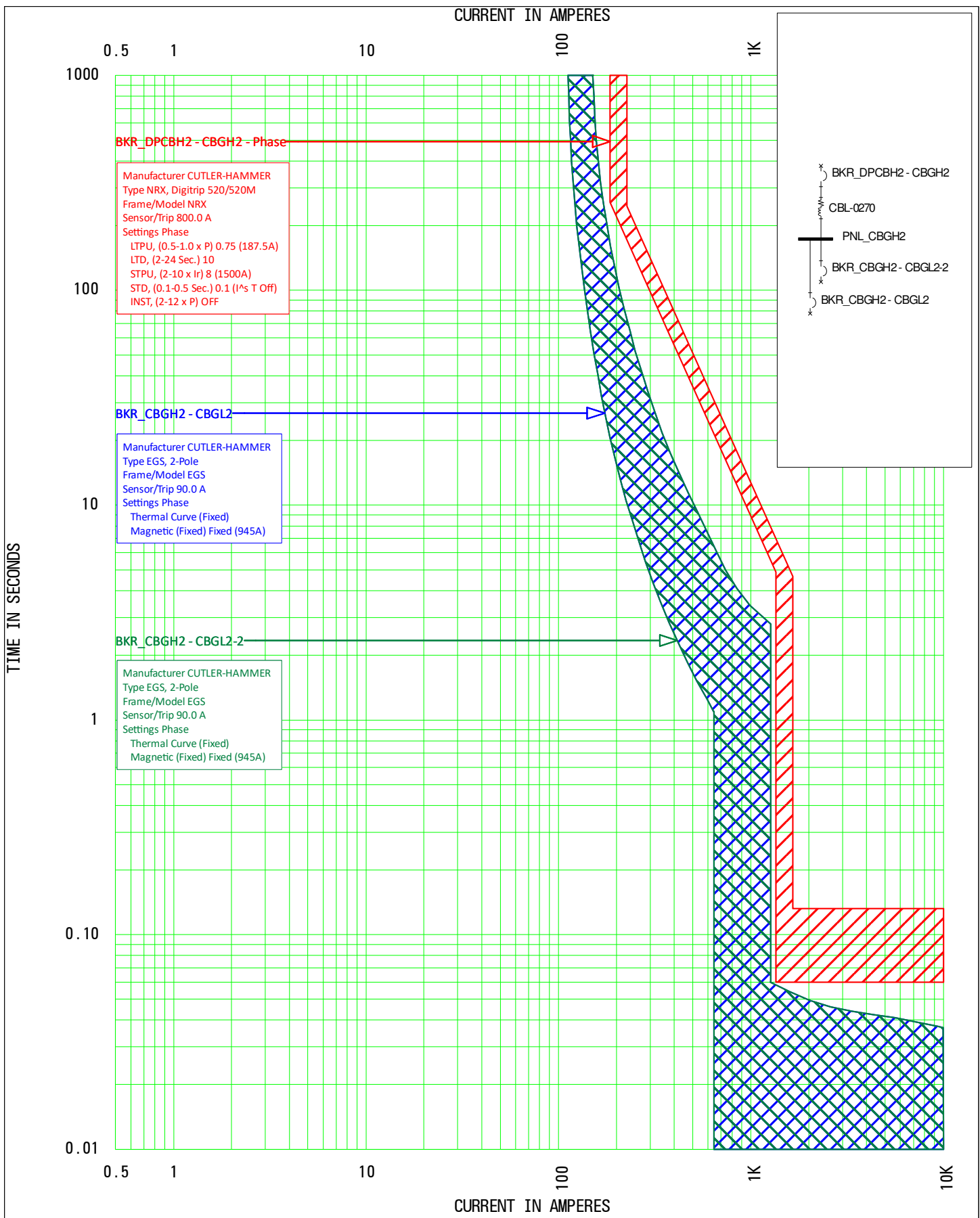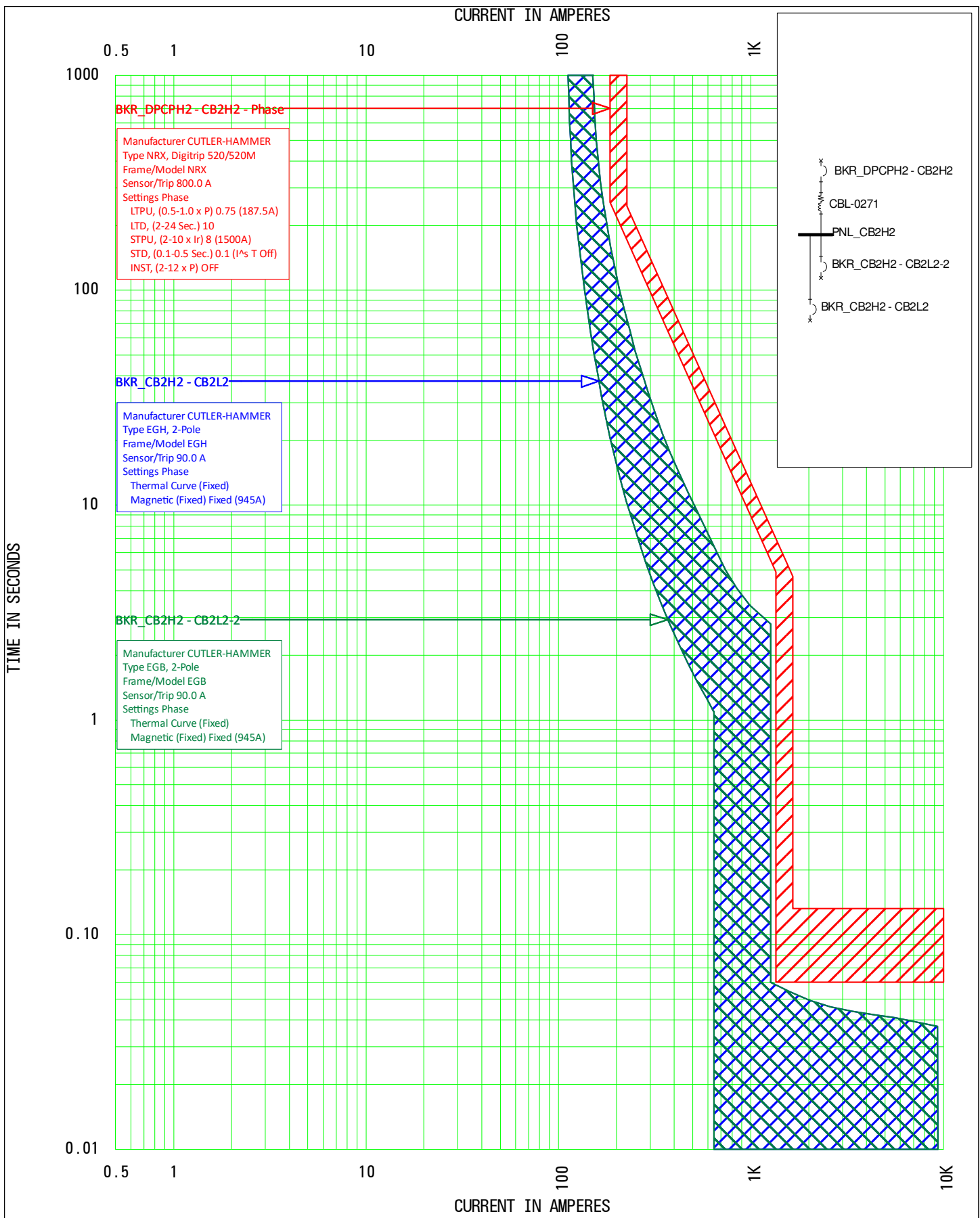POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPCBH2 - CBBH2 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (187.5A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 8 (1500A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_CBBH2 - CBBL2

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_CBBH2 - CBBL2-2

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

BKR_DPCBH2 - CBBH2

CBL-0269

PNL_CBBH2

BKR_CBBH2 - CBBL2-2

BKR_CBBH2 - CBBL2

CURRENT IN AMPERES

TCC Name: TCC_121_PNL_CBBH2
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPCBH2 - CBGH2 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
    LTPU, (0.5-1.0 x P) 0.75 (187.5A)
    LTD, (2-24 Sec.) 10
    STPU, (2-10 x Ir) 8 (1500A)
    STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
    INST, (2-12 x P) OFF

BKR_CBGH2 - CBGL2

Manufacturer CUTLER-HAMMER
Type EGS, 2-Pole
Frame/Model EGS
Sensor/Trip 90.0 A
Settings Phase
    Thermal Curve (Fixed)
    Magnetic (Fixed) Fixed (945A)

BKR_CBGH2 - CBGL2-2

Manufacturer CUTLER-HAMMER
Type EGS, 2-Pole
Frame/Model EGS
Sensor/Trip 90.0 A
Settings Phase
    Thermal Curve (Fixed)
    Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

BKR_DPCBH2 - CBGH2
CBL-0270
PNL_CBGH2
BKR_CBGH2 - CBGL2-2
BKR_CBGH2 - CBGL2

CURRENT IN AMPERES

TCC Name: TCC_122_PNL_CBGH2
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
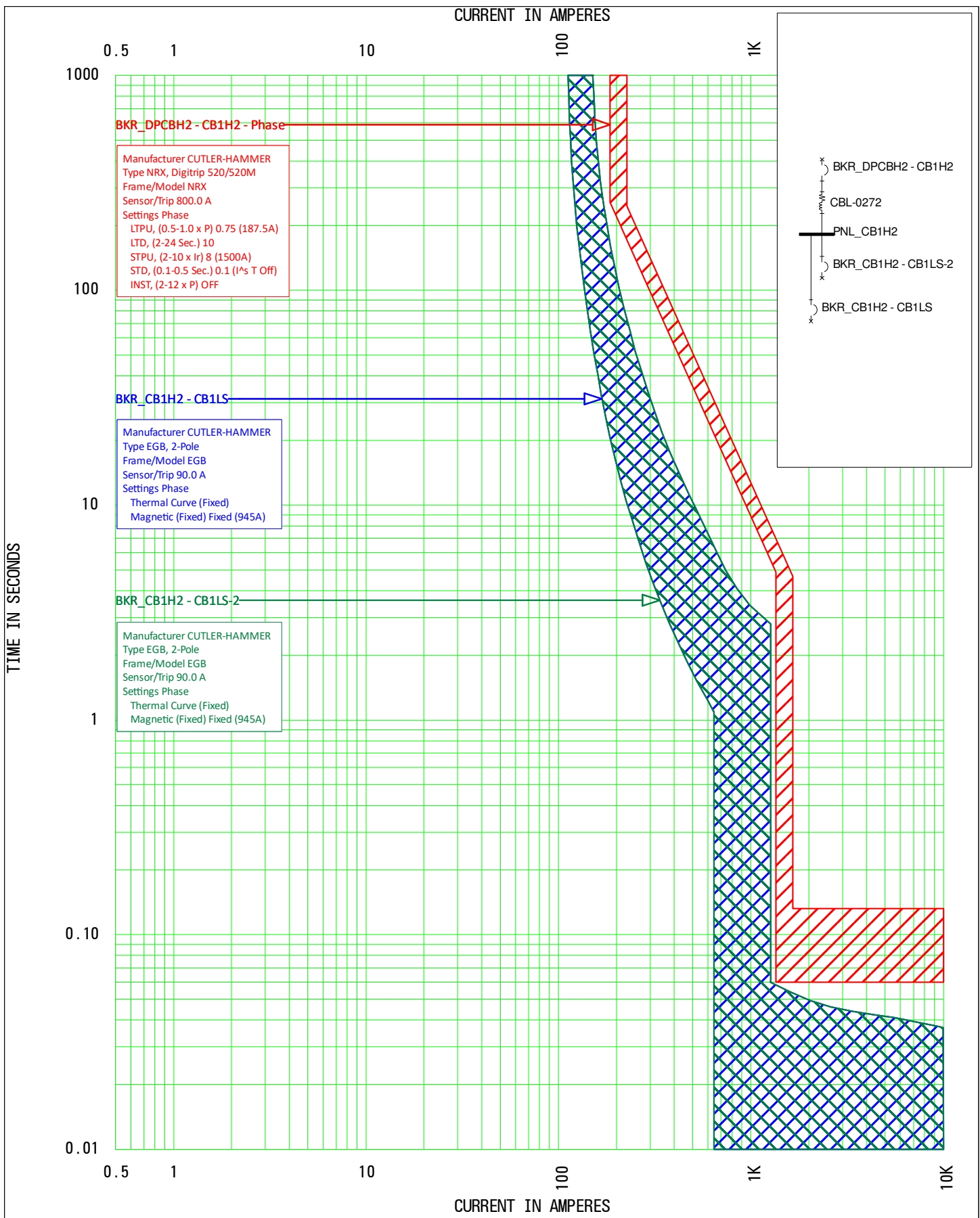Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPCPH2 - CB2H2 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (187.5A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 8 (1500A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_CB2H2 - CB2L2

Manufacturer CUTLER-HAMMER
Type EGH, 2-Pole
Frame/Model EGH
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_CB2H2 - CB2L2-2

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_DPCPH2 - CB2H2
CBL-0271
PNL_CB2H2
BKR_CB2H2 - CB2L2-2
BKR_CB2H2 - CB2L2

TCC Name: TCC_123_PNL_CB2H2
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

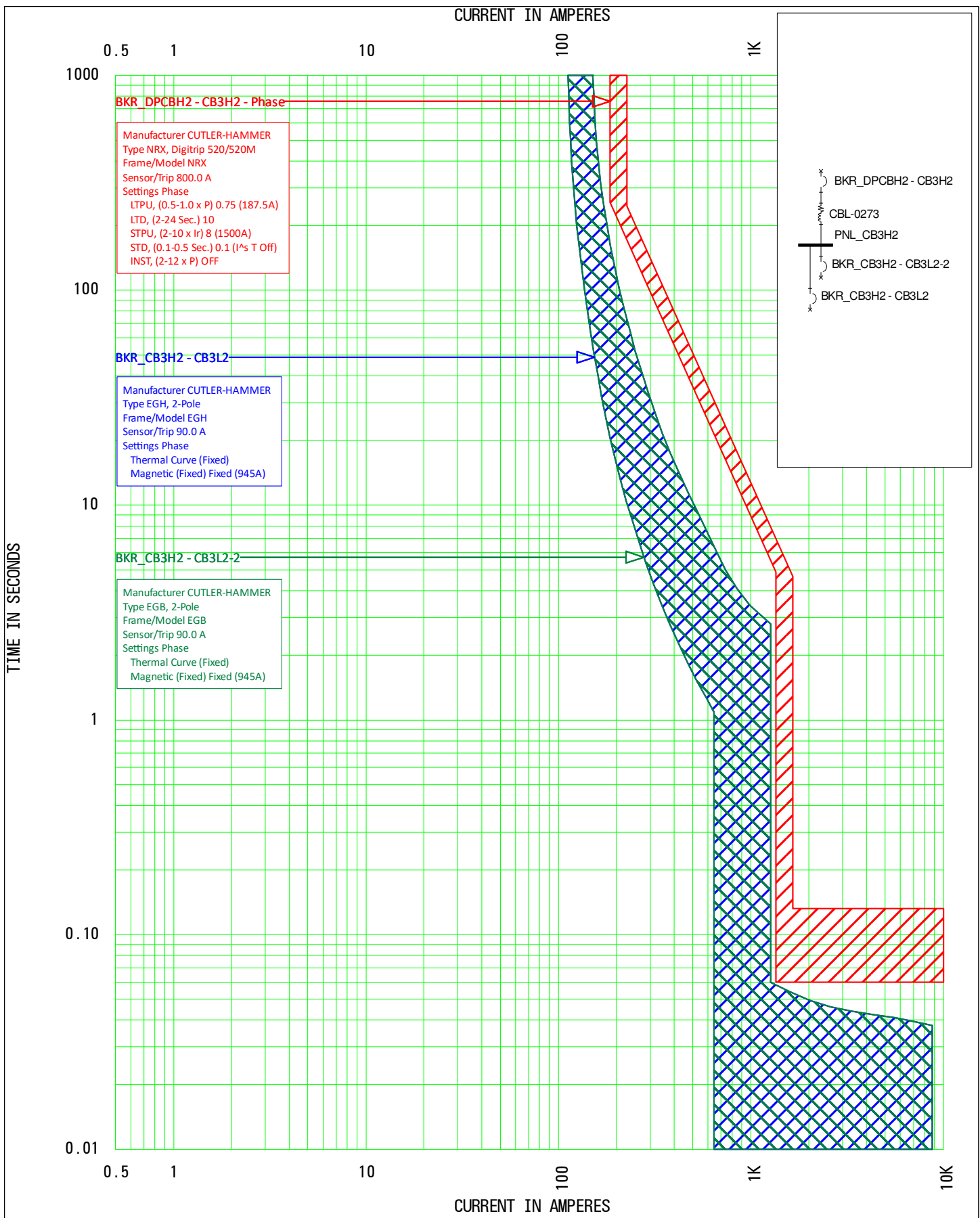CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPCBH2 - CB1H2 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (187.5A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 8 (1500A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_CB1H2 - CB1LS

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_CB1H2 - CB1LS-2

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

- BKR_DPCBH2 - CB1H2
- CBL-0272
- PNL_CB1H2
- BKR_CB1H2 - CB1LS-2
- BKR_CB1H2 - CB1LS

TCC Name: TCC_124_PNL_CB1H2
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
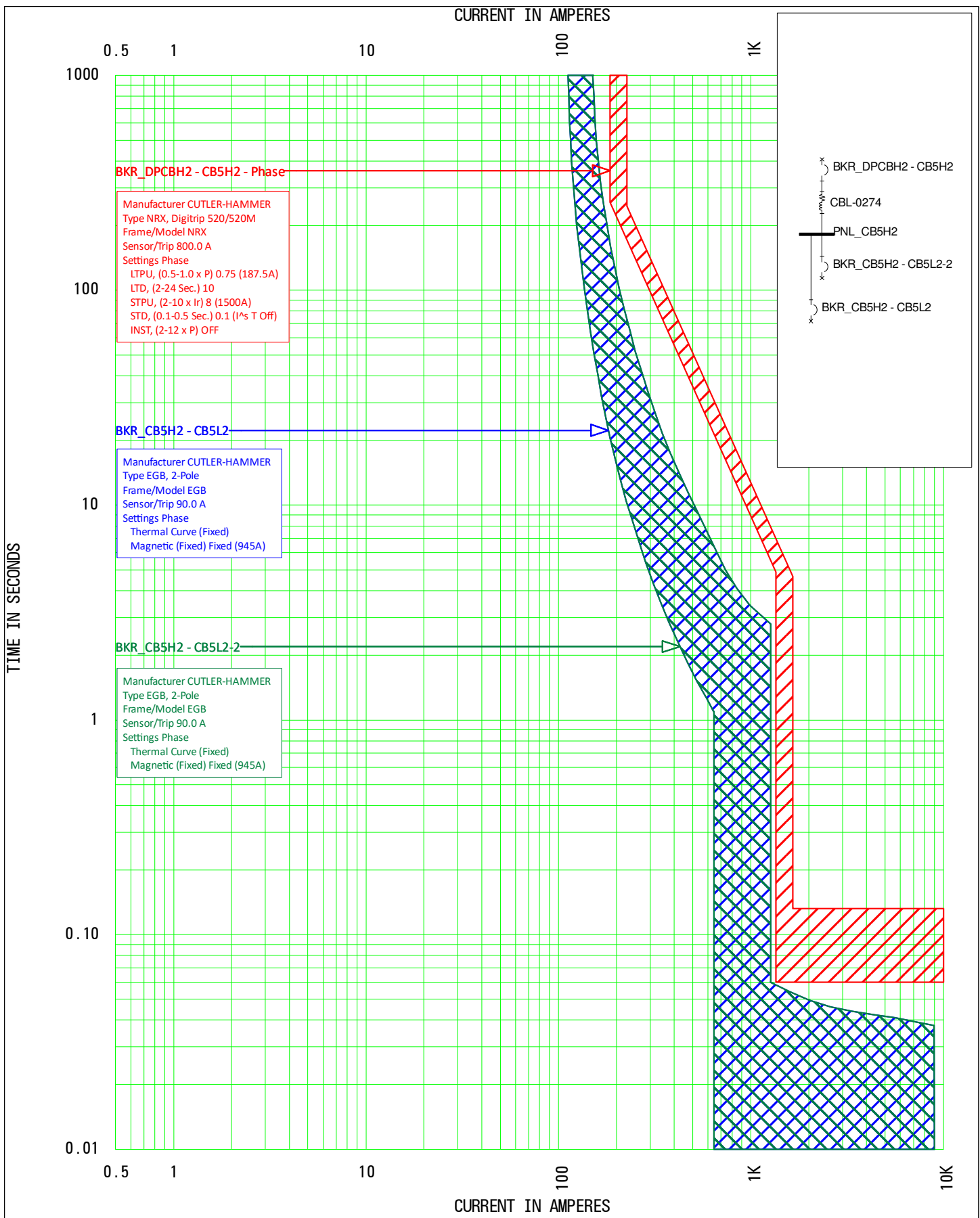Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPCBH2 - CB3H2 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (187.5A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 8 (1500A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_CB3H2 - CB3L2

Manufacturer CUTLER-HAMMER
Type EGH, 2-Pole
Frame/Model EGH
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_CB3H2 - CB3L2-2

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_DPCBH2 - CB3H2
CBL-0273
PNL_CB3H2
BKR_CB3H2 - CB3L2-2
BKR_CB3H2 - CB3L2

TCC Name: TCC_125_PNL_CB3H2
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus
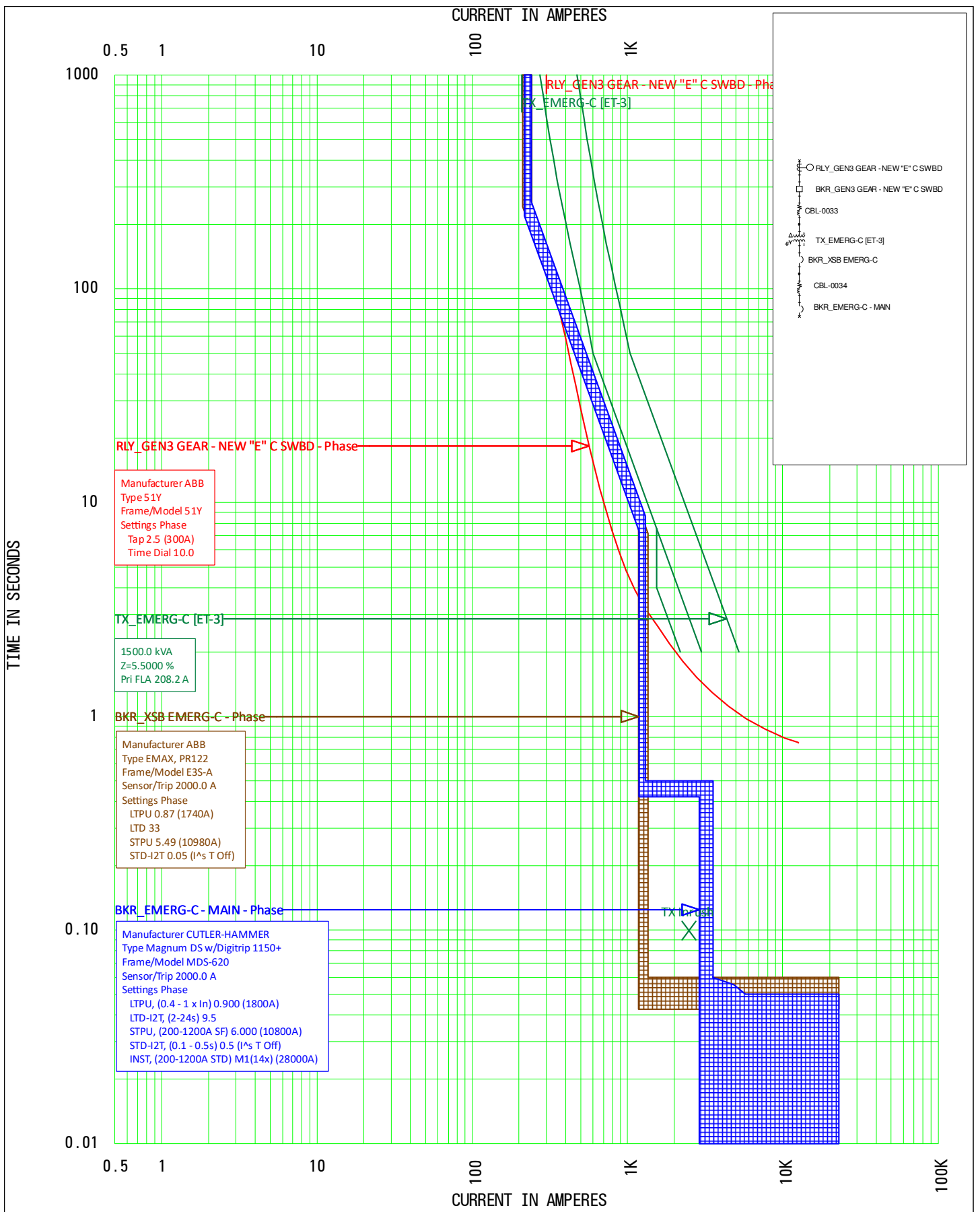
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPCBH2 - CB5H2 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (187.5A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 8 (1500A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_CB5H2 - CB5L2

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_CB5H2 - CB5L2-2

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_DPCBH2 - CB5H2
CBL-0274
PNL_CB5H2
BKR_CB5H2 - CB5L2-2
BKR_CB5H2 - CB5L2

TCC Name: TCC_126_PNL_CB5H2
Project #810133
Recommendation_NEW

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_GEN3 GEAR - NEW "E" C SWBD - Pha—
BKR_EMERG-C [ET-3]

RLY_GEN3 GEAR - NEW "E" C SWBD
BKR_GEN3 GEAR - NEW "E" C SWBD
CBL-0033
TX_EMERG-C [ET-3]
BKR_XSB EMERG-C
CBL-0034
BKR_EMERG-C - MAIN

RLY_GEN3 GEAR - NEW "E" C SWBD - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
  Tap 2.5 (300A)
  Time Dial 10.0

TX_EMERG-C [ET-3]

1500.0 kVA
Z=5.5000 %
Pri FLA 208.2 A

BKR_XSB EMERG-C - Phase

Manufacturer ABB
Type EMAX, PR122
Frame/Model E3S-A
Sensor/Trip 2000.0 A
Settings Phase
  LTPU 0.87 (1740A)
  LTD 33
  STPU 5.49 (10980A)
  STD-I2T 0.05 (I^s T Off)

BKR_EMERG-C - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.900 (1800A)
  LTD-I2T, (2-24s) 9.5
  STPU, (200-1200A SF) 6.000 (10800A)
  STD-I2T, (0.1 - 0.5s) 0.5 (I^s T Off)
  INST, (200-1200A STD) M1(14x) (28000A)

TX_TPU
X

TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_127_TX_EMERG-C [ET-3]
Project #810133
Recommendation_NEW
Current Scale x 1
Reference Voltage: 4160V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED